SHARP

HOME THEATER WITH DVD

MODEL

HT-CN650DVW

OPERATION MANUAL

SHARP CORPORATION

Introduction

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

- HT-CN650DVW Home Theater with DVD consisting of HT-CN650DVW (main unit), CP-CN650F (front speakers), CP-CN650C (centre speaker), CP-CN650R (surround speakers) and CP-CN650SW (subwoofer).

Special notes

WARNING

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

Note for users in Australia:
Copyright may exist in material you wish to record. Copying or broadcasting such material without permission of the relevant licensees or owners of the copyright is prohibited by law. SHARP is not in a position to authorise the copying or broadcasting of copyright materials and nothing in this OPERATION MANUAL should be implied as giving that authority.

For other countries:
Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

COPYRIGHT

Copyright Information:

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a video tape.

Copyright Protection:
This unit supports Macrovision copy protection.
On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the video tape copy from playing normally.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098, and 4,907,093, licensed for limited viewing uses only.

CAUTION

- This product is classified as a CLASS 1 LASER product.
- This product contains a low power laser device. To ensure continued safety, do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.

Use of this copyright protection technology must be authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation.

Reverse engineering or disassembly is prohibited.

“DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.

Manufactured under license from Dolby Laboratories, “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

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Types of playable discs

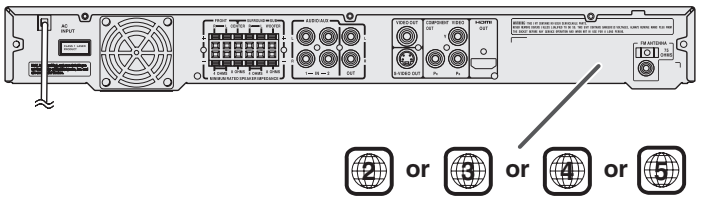
The DVD player can play back discs bearing any of the following marks:

Disc type	Disc contents	Disc size
DVD Video Disc	Audio and video (movies)	12 cm (5") 8 cm (3")
Super Video CD	Audio and video (movies)	12 cm (5") 8 cm (3")
Video CD	Audio and video (movies)	12 cm (5") 8 cm (3")
Audio CD	Audio	12 cm (5") 8 cm (3")
CD-R/CD-RW (*1) Or CD-R/CD-RW recorded in MP3 format (*2), JPEG format (*3) (*4) (*5)	Audio and picture	12 cm (5") 8 cm (3")
DivX® Video disc (Ver 5.2 and below)	Audio and video (movies)	12 cm (5") 8 cm (3")

(*1): The CD-R/CD-RW may not be played back properly depending on the recording equipment or the disc.
(*2): If the sampling frequency is 44.1 or 48.1 kHz and the fixed bit rate is 128 kbps or higher, MPEG 1 Audio Layer 3 (MP3) files can be played. However, some of them may not be played depending on their conditions or formats.
(*3): This unit also can recognise .AVI, .DIV, .MPG, .MPEG and .XVID. Bitrate can go up to 4.8 Mbps.
(*4): JPEG or JPG picture discs also play on this unit. However, pictures may not be clear (depends on resolution and recording method).
(*5): JPEG maximum resolution limit at 2M file size.
If photo bigger than this size, a dialog box will appear to display “over file size” and go to next picture.

● For unplayable discs, see page 7.

Types of playable DVD discs vary depending on the region. This unit can play back only DVDs with the same region number are written on the back of the unit.



Icons used in this operation manual

Some functions may not be available depending on discs. The following icons indicate the discs that can be used in the section.

DVD ... Indicates DVDs.

SVCD ... Indicates Super video CDs.

VCD ... Indicates video CDs.

CD ... Indicates audio CDs.

MP3 ... Indicates CD-R/RW with MP3 recording.

JPEG ... Indicates CD-R/RW with JPEG recording.

DivX ... Indicates DivX® video.

- Some operations may not be performed depending on discs even if they are described in this manual.
- During operation, “⊘” may be displayed on the screen. This means that the operations described in this manual are not possible.

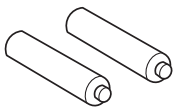
Copyright Information:

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a videotape.
- This system is protected by U.S. patents and other intellectual property rights, the copyright for which belongs to Macrovision Corporation. The use of Macrovision’s copy protection technology in the system is authorised by Macrovision and is intended for home use only, unless otherwise authorised in writing by Macrovision. Reverse engineering or disassembly is prohibited.

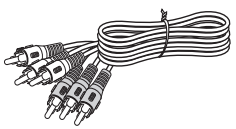
Accessories

Please confirm that the following accessories are included.

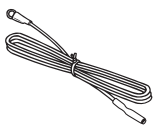
Remote control × 1



"AAA" size battery (UM-4, R03, HP-16 or similar) × 2



Audio/Video cable × 1



FM aerial × 1

White and Black
(for left front speaker)
approx. 3 m

Green and Black
(for centre speaker)
approx. 3 m

Red and Black
(for right front speaker)
approx. 3 m

Blue and Black
(for left surround speaker)
approx. 8 m

Grey and Black
(for right surround speaker)
approx. 8 m

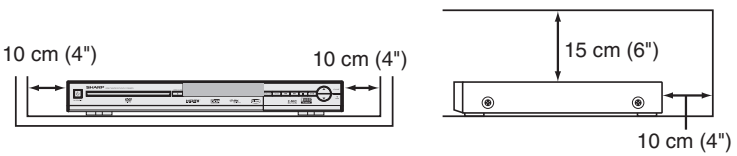
Speaker connection lead × 5

Note:
Only the above accessories are included.

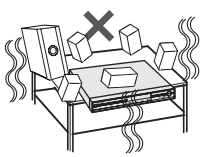
Precautions

■ General

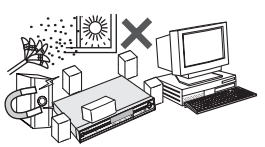
- Please ensure that the equipment is positioned in a well ventilated area and that there is at least 10 cm (4") of free space along the sides and back. There must also be a minimum of 15 cm (6") of free space on the top of the unit.



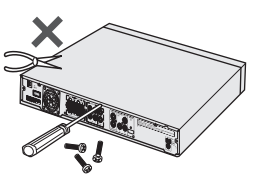
- Use the unit on a firm, level surface free from vibration.



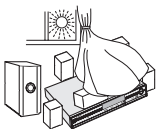
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.



- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60˚C (140˚F) or to extremely low temperatures.
- If the unit does not work properly, unplug and plug it in again. Then turn on the unit.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- The AC power plug is used as disconnect device and shall always remain readily operable.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5˚C - 35˚C (41˚F - 95˚F).

Warning:
The voltage used must be the same as that specified by this unit. Using this product with a higher voltage other than that specified is dangerous and may result in a fire or other types of accident, causing damage. SHARP will not be held responsible for any damage resulting from the use of this unit with a voltage other than that specified.

■ Volume control

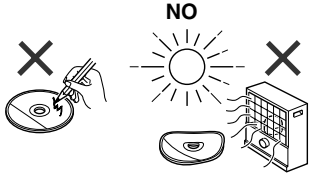
The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

■ Care of DVD/CD discs

DVD/CD discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your DVD/CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the DVD/CDs by the edges. Fingerprints, dirt, or water on the DVD/CDs can cause noise or mistracking. If a DVD/CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

NO



YES
Correct

Description of discs

■ Discs that cannot be played

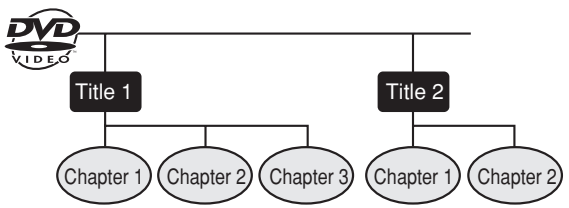
- DVDs without the region number on the back of the unit or “ALL”.
- DVDs with SECAM system
- DVD-ROM
- DVD-RAM
- DVD-Audio
- CDG
- CDV
- Photo CD
- CD-ROM
- SACD
- Discs recorded in special formats, etc.

- The discs above cannot be played at all, or no sound is heard although images appear on the screen or vice versa.
- Incorrect operation may damage the speakers and can have an negative effect on your hearing when played at high volume settings.
- You cannot play illegally produced discs.

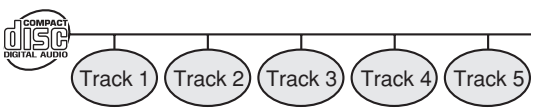
Notes:
- A disc with has scratches or fingerprints may not play properly. Refer to “Care of DVD/CD discs (page 6)” and clean the disc.
- Do not play the discs of special shapes (heart or octagon shaped) as they can be ejected whilst rotating and cause injury.

■ Title, chapter and track

DVDs are divided into “titles” and “chapters”. If the disc has more than one movie on it, each movie is a separate “title”. “Chapters” are subdivisions of titles.



Audio CDs consist of “tracks”.
A “track” is each tune on an audio CD.



Note:
Title, chapter, or track numbers may not be recorded on some discs.

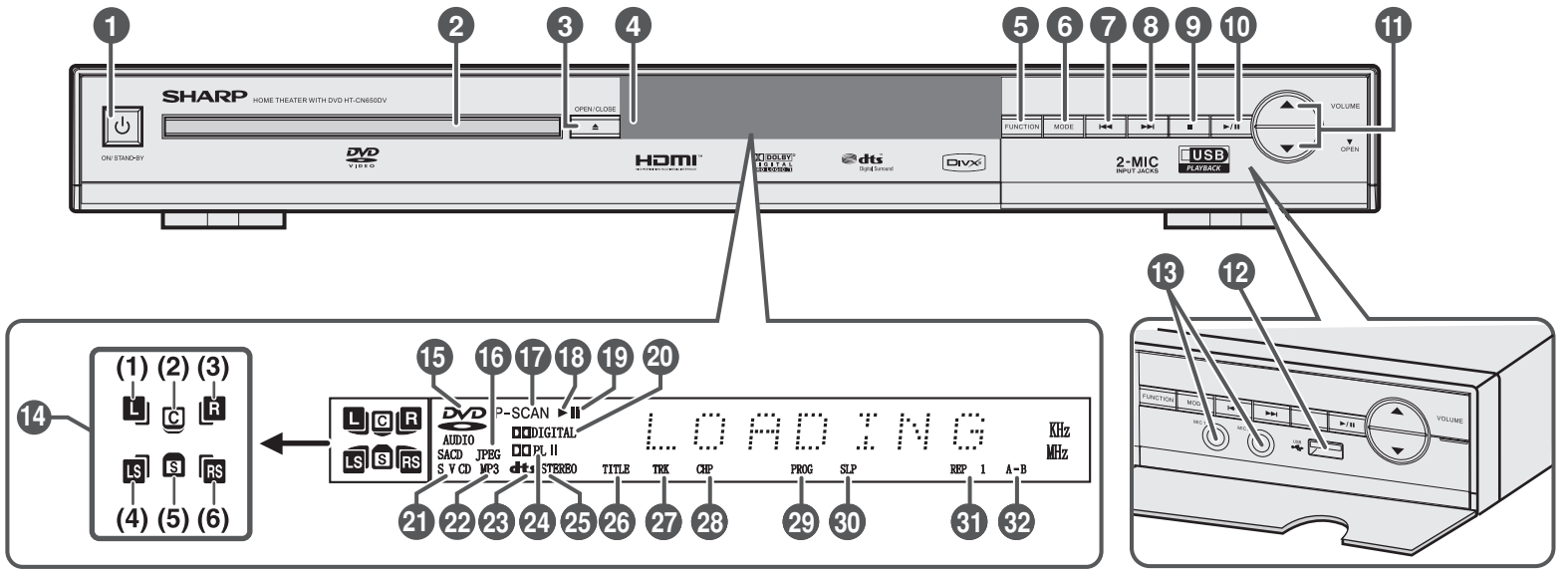
■ Icons used on DVD discs

Check the icons on the DVD case before playing your discs.

Display	Description
Region number (playable area number)	DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number on the back of the unit.
Format recorded on the DVD	To adopt the video format to the connected TVs (“wide-screen TV” or “4:3 size TV”).
4:3	Recorded in 4:3.
16:9 LB	You can enjoy wide images on a wide-screen TV, and letterbox size images on the 4:3 size TV.
16:9 PS	You can enjoy wide images on a wide-screen TV and 4:3 images with the side edges cut on the 4:3 size TV.
Type of subtitles recorded Example: 1: English 2: French	Recorded subtitle languages. Language can be selected with the SUBTITLE button.
Number of camera angles	Number of angles recorded on the DVD. Angles can be selected with the ANGLE button.
Number of audio tracks and audio recording systems Example: 1: Original <English> (DTS 5.1 Surround) 2: English (Dolby Digital 5.1 Surround)	The number of audio tracks and audio recording systems are indicated. ● The audio recorded on the DVD can be switched by using the AUDIO button. ● The number of audio tracks and recording systems vary depending on the DVD. Check them in the DVD's manual.

Controls and indicators

■ Main unit (front panel)



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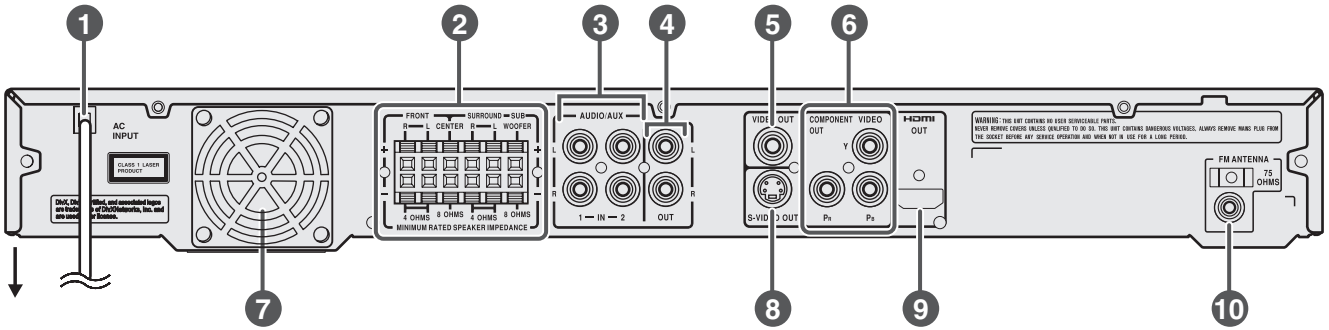
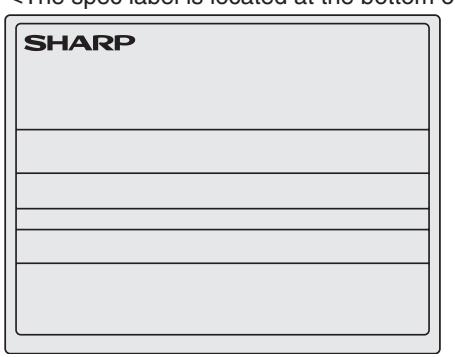
■ Main unit (rear panel)



<The spec label is located at the bottom of the unit>



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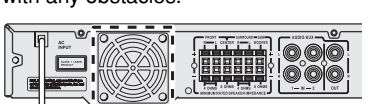
Cooling fan

This unit is fitted with a cooling fan at the rear for improved cooling. Do not cover the opening in this section with any obstacles.

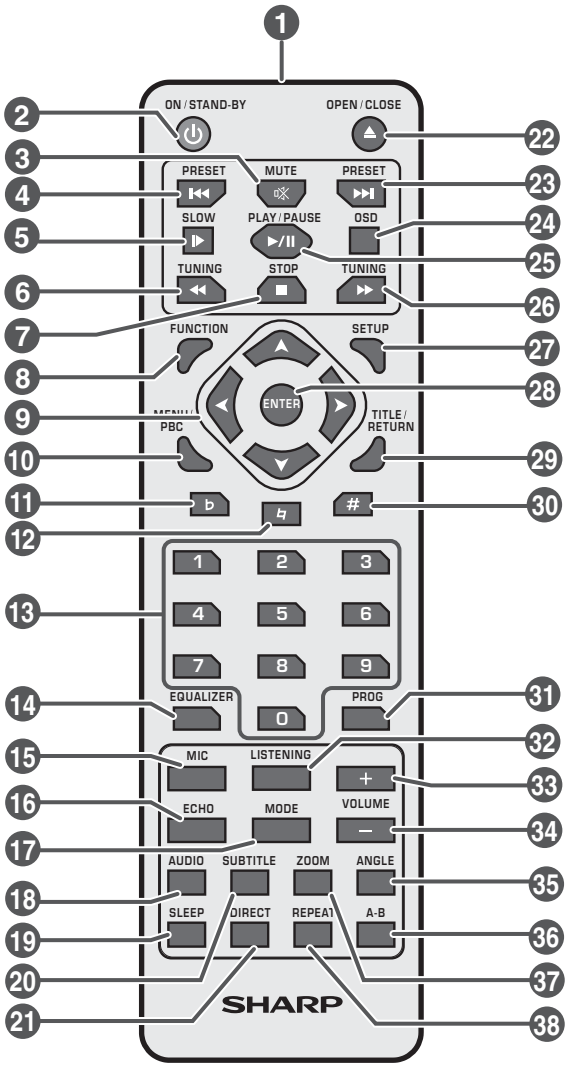


Cooling fan

Caution:

- The unit will get warm whilst being used. Do not touch the warm areas of the unit for prolonged periods to avoid damage to you.
- This unit is equipped with a special function which protects the amplifier circuit from damages. When it is activated, the sound switch is turned off. In this case, unplug the unit and, after 15 minutes or more, plug it in again.

Controls and indicators (continued)



■ Remote control

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5. Slow Motion Button 31
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34. Volume Down Button 26, 51
35. Angle Select Button 32
36. A - B Repeat Button 34
37. Zoom Button 32
38. Repeat Play Button 33, 39

■ Front/surround speakers

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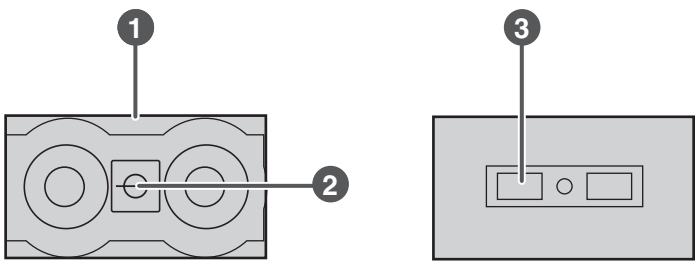
■ Centre speaker



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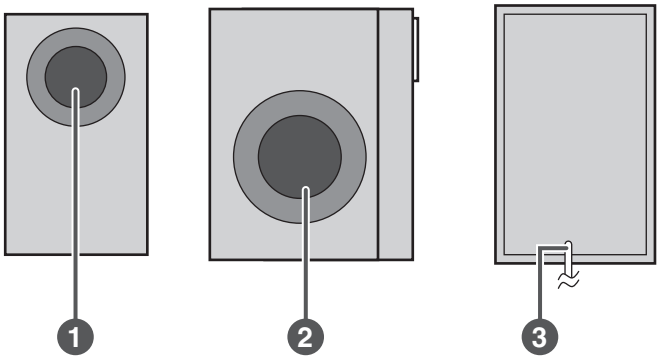
1. Speaker
2. Super Tweeter
3. Speaker Terminals 13

■ Subwoofer



Reference page

1. Bass Reflex Duct
2. Woofer
3. Speaker Lead 13

■ Speaker functions

Front speaker:
Reproduces left and right sound (stereo mode) or front surround sound.

Centre speaker:
Reproduces centre surround sound.

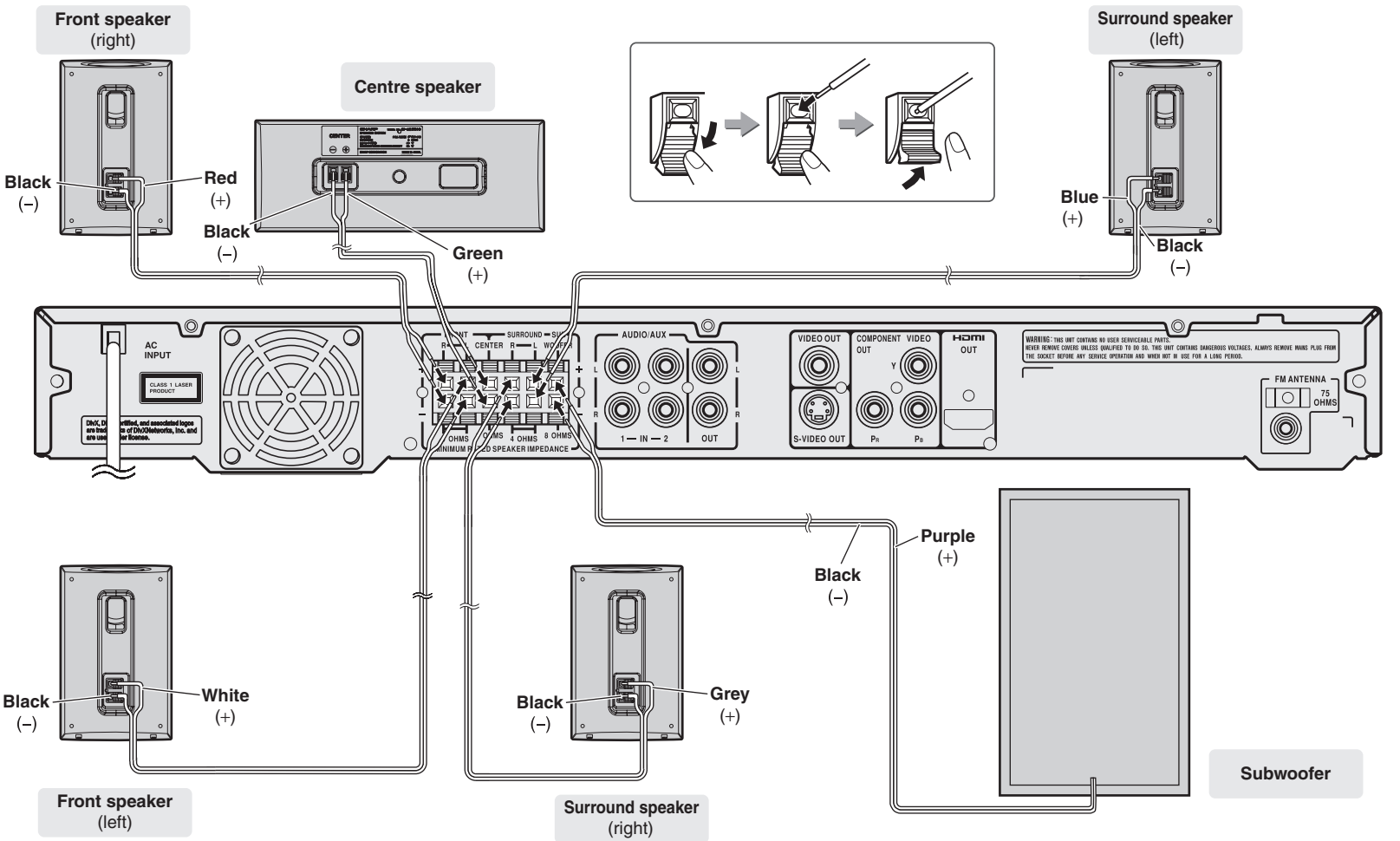
Surround speaker:
Reproduces rear surround sound.

Subwoofer:
Reproduces bass sound.

Notes:
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Front and centre speakers are magnetically shielded.

Speaker connection

Speaker terminals on the main unit and speakers, and speaker wires are distinguished by colours.
Connect the speaker and the unit by matching the colours.
(For speaker installation, see page 18.)



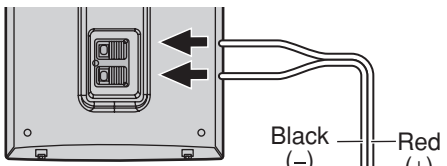
Aerial connection

■ Connecting speaker wires

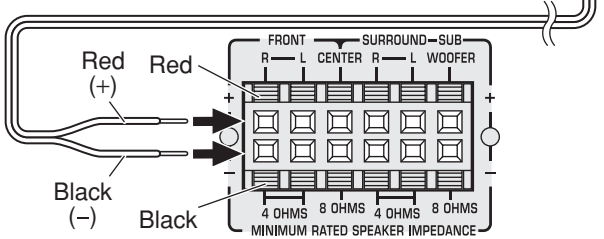
Make sure to leave the AC power lead disconnected when connecting the speakers.

To prevent accidental short circuits between ⊕ and ⊖ terminals, connect the speaker wires to the speakers first and then to the unit.

1 Connect the wires to the speakers.

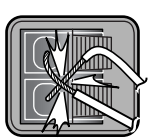


2 Connect the other end to the main unit.



Caution:

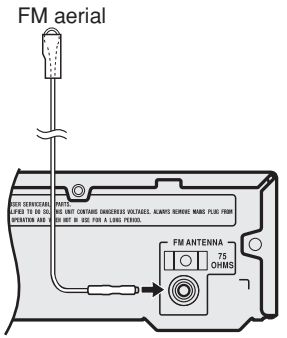
- The supplied speakers for HT-CN650DVW is designed exclusively for HT-CN650DVW. Do not connect speakers for HT-CN650DVW to other equipment. Also, do not connect other speakers to HT-CN650DVW. It may cause malfunction.
- Do not mistake the ⊕ and ⊖, and right and left terminals of the speaker wires. (The right speaker is placed on the right when you face the unit.)
- Do not let the bare speaker wires touch each other.
- Do not stand or sit on the speakers. You may be injured.
- Do not short-circuit the speaker wires. If the power is turned on, malfunction may occur.
- When disconnecting the speaker wires, unplug the AC power lead, and then disconnect the speaker wires from the main unit.



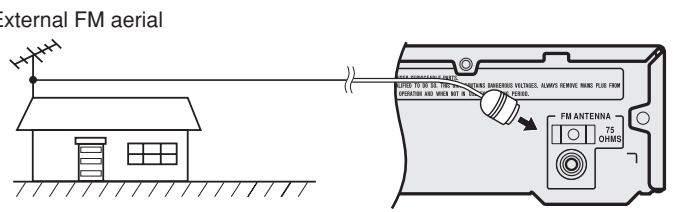
Incorrect

Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

Note:
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.



External FM aerial:
Use an external FM aerial if you require better reception. Consult your dealer.

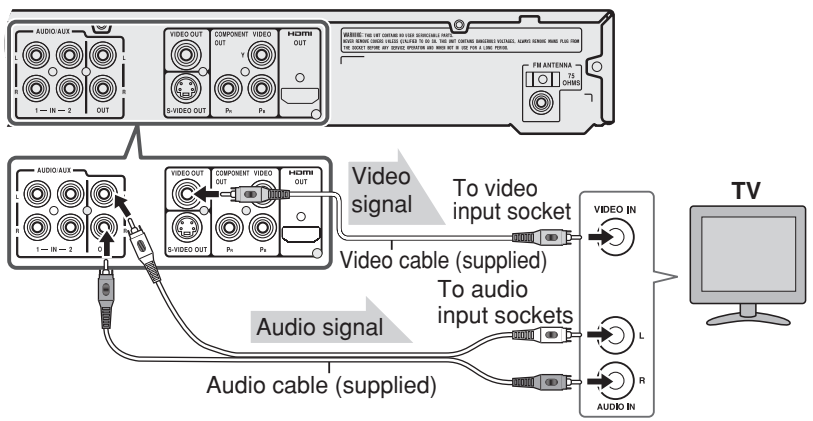


Connections to TV, VCR, etc.

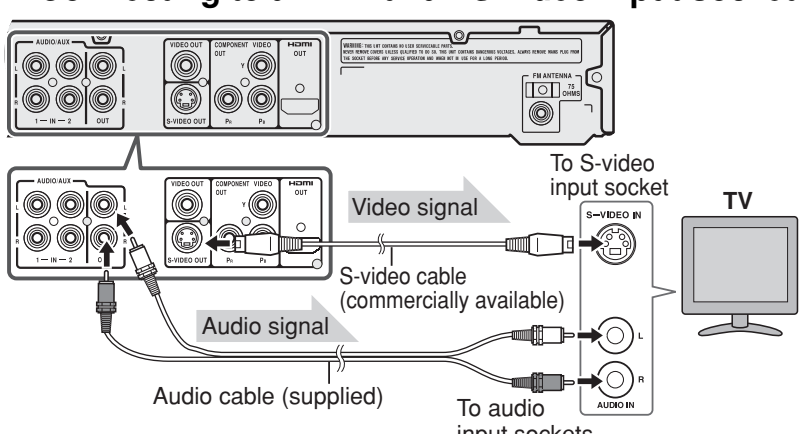
Caution:

Turn off all other equipment before making any connections.

■ Connecting to a TV with a video input socket

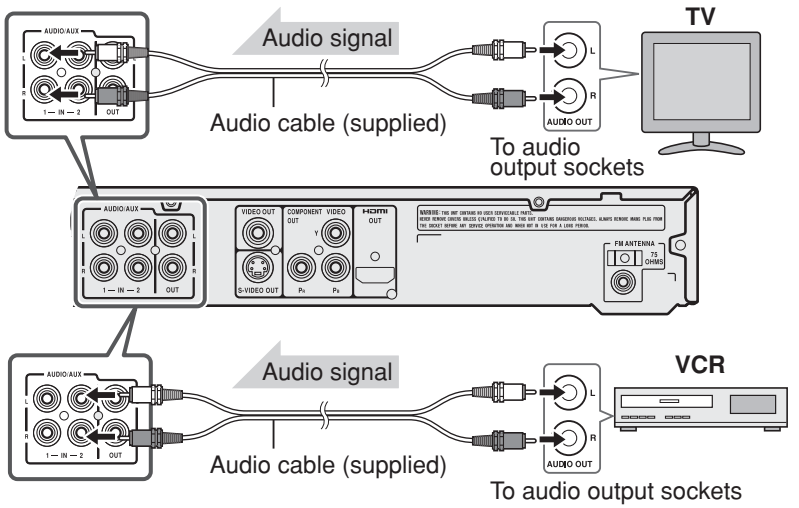


■ Connecting to a TV with an S-video input socket

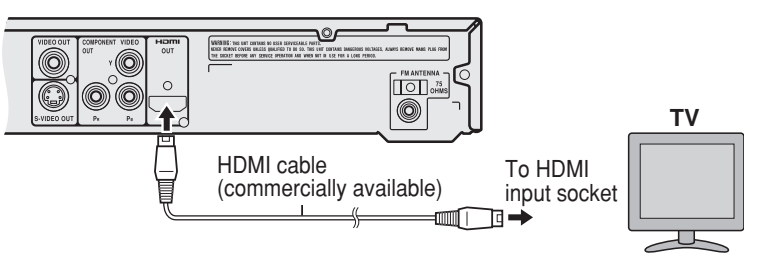


■ Audio connection from TV or VCR

You can enjoy surround sound from TV or VCR by connecting them to the unit as shown.



■ Connecting to a TV with HDMI socket



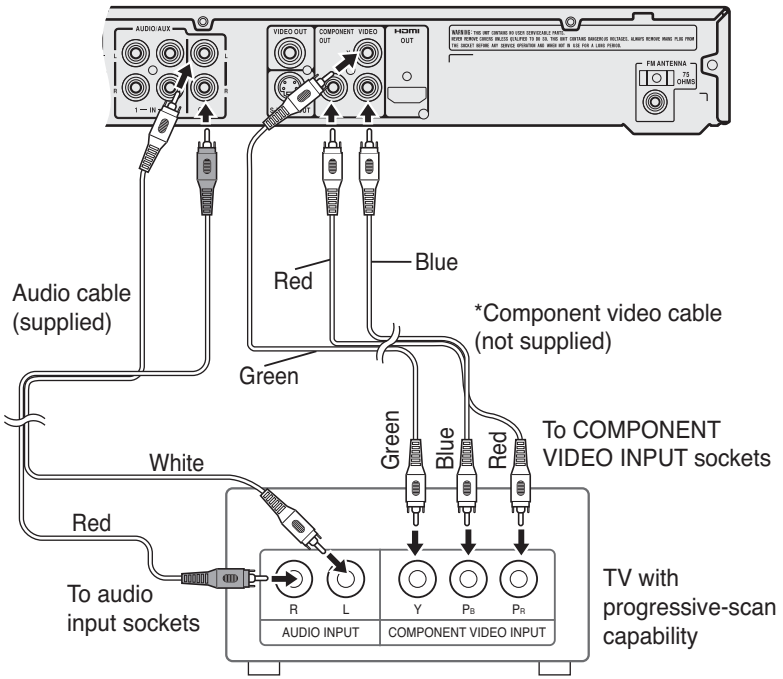
Note:

Please follow the below steps before turn on the power.

1. If your TV has the HDMI input socket, connect the DVD player with the HDMI cable (the VIDEO OUT, S-VIDEO and COMPONENT VIDEO OUT sockets connection are not necessary). You can enjoy clearer picture playback.
2. You no need to connect the left and right audio cables to the AUDIO OUT socket of DVD player and the AUDIO INPUT socket of TV.

■ Connecting to a TV with Progressive-scan capability

Your TV must be capable of handling progressive scanning and have component video input capability.

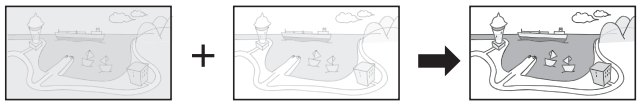


* Please consult your local audio/video dealer.

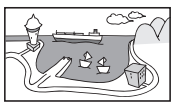
1. Connect the DVD main unit to the component video input sockets of the TV. (The VIDEO INPUT or S-VIDEO OUT sockets connection is not encourage.)
2. You also need to connect the left and right audio cables to the AUDIO OUT sockets of DVD main unit and the Audio input sockets of the TV.
3. Set the DVD main unit to the PROGRESSIVE position. (See page 22)

Connections to TV, VCR, etc. (continued)

Interlaced scanning



Progressive scanning



Progressive Scanning

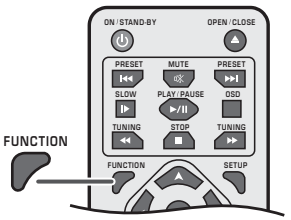
Whilst interlaced scanning produces one frame of video in two fields, progressive scanning creates one frame in one field.
Conventional interlaced scanning constitutes one second with 30 frames (60 fields), but progressive scanning constitutes it with 60 frames from scratch.
Progressive scanning can reproduce sharper picture with high resolution for still image or other picture containing long texts or horizontal lines.
This model has compliance with 525p (progressive) system.

Notes:

- Please refer to your TV instruction manual.
- When you connect the DVD main unit to your TV, be sure to turn off the power and disconnect both units from the wall socket until all the connections have been made.
- Do not connect the DVD main unit to a VCR directly. The playback picture will be distorted because DVD video discs are copy protected.

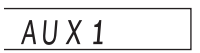
To listen to TV or VCR sound via the speakers of this unit:

Press the FUNCTION button repeatedly to select the desired audio input.

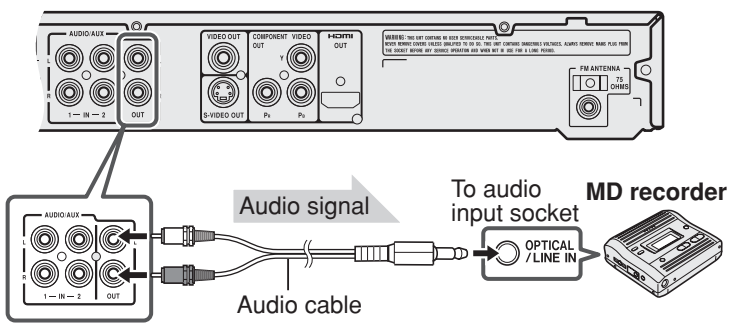


- "AUX 1" or "AUX 2".

Unit display

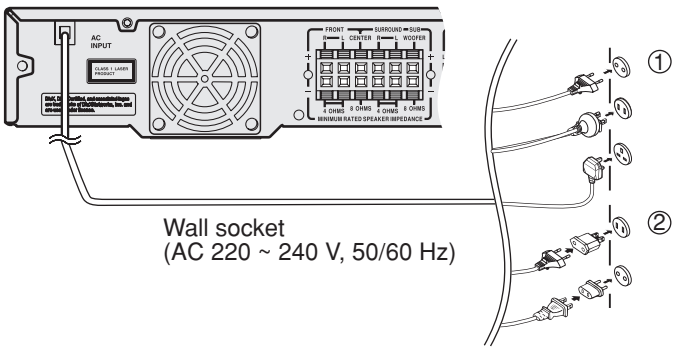


■ Audio connection to other equipment



Notes:

- Change the TV input in accordance with the connected socket.
- Do not connect other equipment (VCR, etc.) between the TV and this unit. Pictures may be distorted.
- Refer to the operation manual of the equipment to be connected.
- Insert the plugs fully to avoid fuzzy pictures or noise.



■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket.

Notes:

- Plug the AC power lead into the wall socket, after any connections.
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.
- Use only the supplied AC power lead. Using other power leads may cause an electric shock or fire.

AC Plug Adaptor

In areas (or countries) where a wall socket as shown in illustration ② is used, connect the unit using the AC plug adaptor supplied with the unit, as illustrated. The AC plug adaptor is not included in areas where the wall socket and AC power plug can be directly connected (see illustration ①).

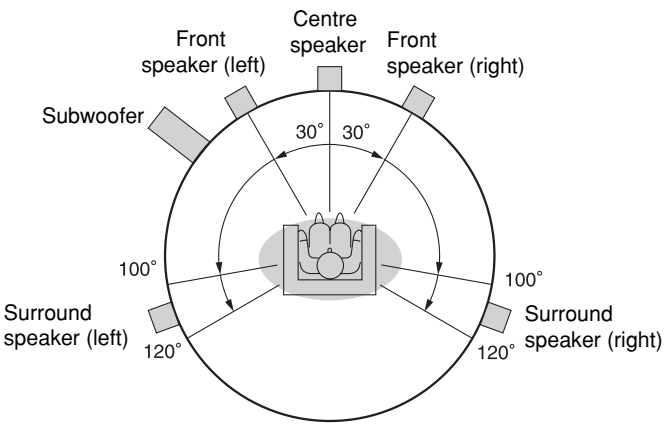
Note:

An AC plug adaptor is not supplied if the lead has an Australian Standard plug.

System installation

■ Placing the speaker system

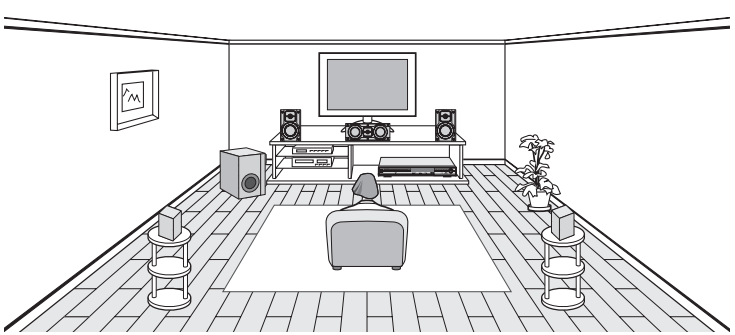
The best surround effect will be achieved by placing each speaker at the same distance from the listening position.
It is recommended to arrange the speakers as shown below.



Note:

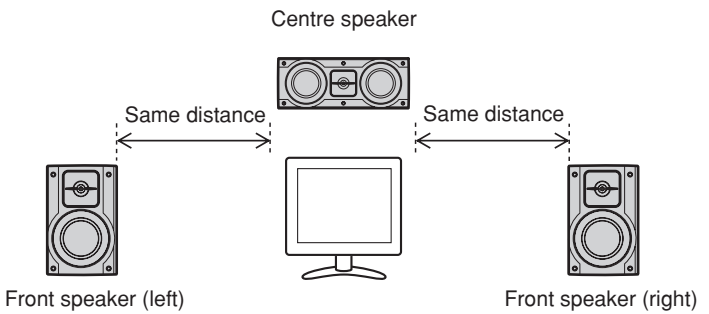
If speakers cannot be placed at equal distances, refer to “Channel delay setting” (see page 49).

Installation image:



Notes:

- Place the TV halfway between the front speakers.
- It is recommended that the centre speaker be placed near the television.
- Place the surround speakers at a position just above the height of your ears.
- The subwoofer vibrates whilst reproducing bass. Place it on a stable, sturdy surface.
- The bass sound from the subwoofer is non-directional, however, it is recommended to place it as close as left and right speakers.



■ Magnetically shielded speakers

The front and centre speakers may be placed beside or near the TV as they are magnetically shielded. However, discolouration may occur depending on the TV type.

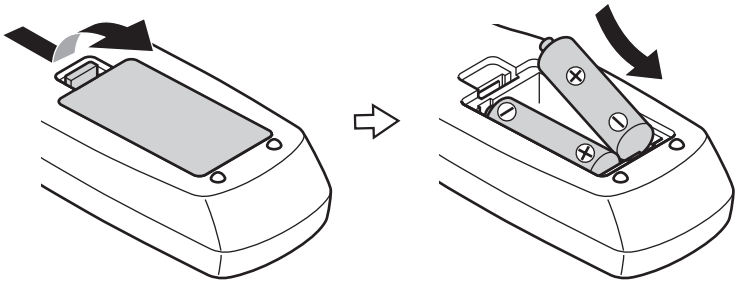
If colour variation occurs...
Turn off the TV (with the power switch).
After 15 - 30 minutes, turn the TV on again.

If the colour variation is still present...
Move the speakers further away from the TV.
Refer to the manual of the TV for details.

Note:
The surround speakers and subwoofer are not magnetically shielded.

Battery installation

1 **Open the battery cover.**
2 **Insert the supplied batteries according to the direction indicated in the battery compartment.**
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Close the cover.**



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Incorrect installation may cause the unit to malfunction.
- Battery (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

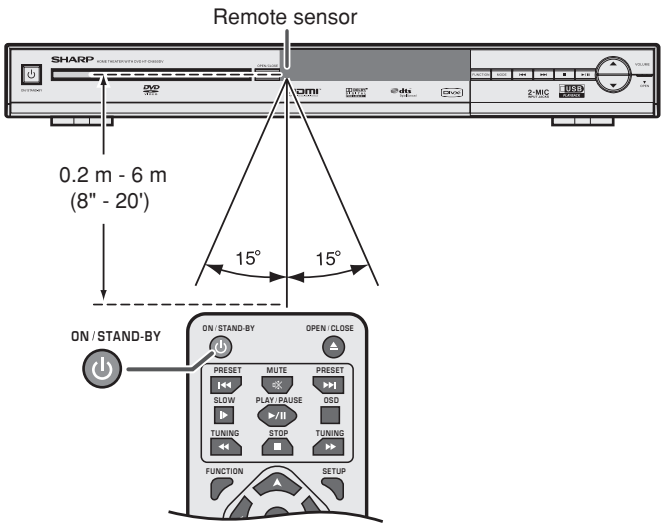
Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 “AAA” size batteries (UM-4, R03, HP-16 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

Turning the power on

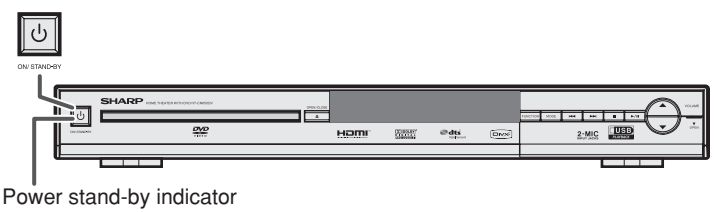
■ Test of the remote control

Check the remote control operation after making all the connections (see pages 12 - 18).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy your system.



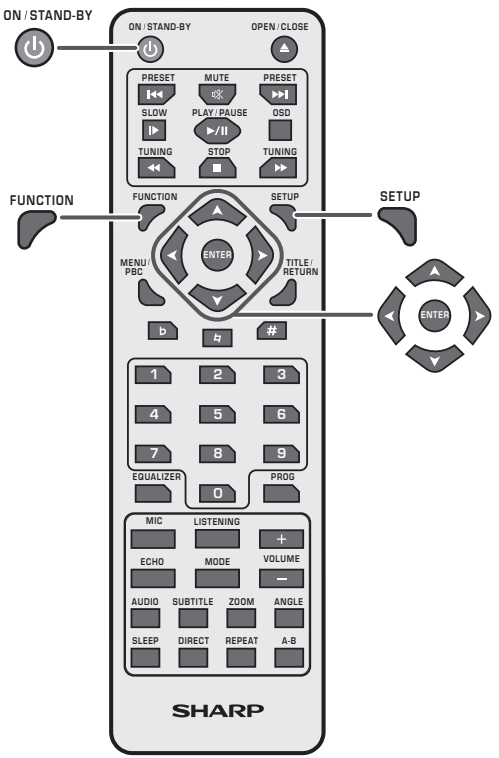
■ To turn the power on



Press the ON/STAND-BY button.
If the power does not turn on, check the AC power lead is plugged in properly.

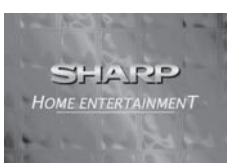
Changing the setup menu

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.



1 Press the ON/STAND-BY button to turn the power on.

- The startup screen appears.
- The startup screen does not appear when the input is not set to the disc mode. Press the FUNCTION button to select DVD mode.



2 Press the SETUP button.

3 Press the ◄ or ► button to select a menu and press the ENTER button.

See the list on pages 21 - 25 for setup menu.

4 Press the ▲, ▼, ◄ or ► button to change the setting and press the ENTER button.

- See the list on pages 21 - 25 for the selectable parameters.

5 Press the SETUP button.

- The setting is completed.
- To change other settings, begin from step 2.

Notes:

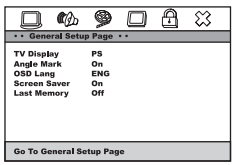
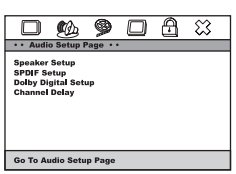
- During playback, "PREFERENCES" settings cannot be changed.
- Settings are stored even if the unit is set to the stand-by mode.
- The backup function protects the stored settings for a few hours should there be a power failure or the AC power lead disconnection.
- If the startup screen is blurred, change the TV type in the setup menu.

■ Change the system with conventional TV connecting

- If you use a conventional TV, you must select the INTERLACE at “Video Setup Page” (see page 22).
- INTERLACE mode is use for normal video output.
- For conventional TV connection, please refer to page 14.

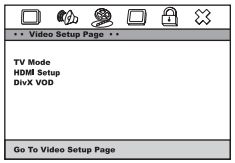
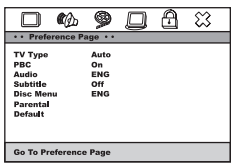
■ Change the system to a TV with Progressive-Scan

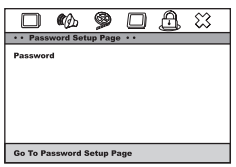
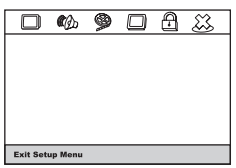
- If you use TV with Progressive-Scan capability and connect it to the COMPONENT VIDEO OUT sockets of the DVD main unit (see page 15), you must select the PROGRESSIVE-SCAN (P-SCAN).

Setup menu	Selectable parameters (* indicates default setting)				Description
GENERAL SETUP PAGE		TV DISPLAY	NORMAL/PS* NORMAL/LB WIDE WIDE SQUEEZE		The screen mode should be set according to the connected TV type (for details, see page 24).
		ANGLE MARK	ON* OFF		
		OSD LANG	ENGLISH* RUSSIAN FRENCH SPANISH		You can select the desired OSD (On Screen Display) language for the setup menu or playback control screen.
		SCREEN SAVER	ON*		A screensaver appears.
			OFF		The screensaver is disabled.
		LAST MEMORY	ON		If accidently push ON/STAND-BY or OPEN/CLOSE button during playback mode, you can resume playback from the point playback is stopped after power on back or you push the OPEN/CLOSE button to close the disc tray.
			OFF*		Last memory not function.
AUDIO SETUP PAGE		SPEAKER SETUP	TEST TONE	ON OFF*	You can check speaker output (see page 49).
		SPDIF SETUP	SPDIF OUTPUT	SPDIF OFF SPDIF/RAW SPDIF/PCM*	Useful whilst using HDMI cable. When playing a disc recorded with Dolby Digital or DTS, the corresponding digital signals will be output from the HDMI Output socket. ● PCM: Choose this setting if the HDMI TV cannot support Dolby Digital or DTS to avoid noise or mute from the TV. ● RAW: Choose this setting if the HDMI TV can support Dolby Digital or DTS.
			LPCM OUT	48K* 96K	Select the sampling frequency at 48 kHz/16 bit or 96 kHz/24 bit capability after you select SPDIF/PCM at SPDIF SETUP.
		DOLBY DIGITAL SETUP	DYNAMIC(*1)	FULL	Audio with fully compressed dynamic range.
				3/4 ⋮ 1/4	Audio with partially compressed dynamic range.
				OFF*	Audio with uncompressed dynamic range.
		CHANNEL DELAY			Adjust the delay time of the speakers (for details, see page 48).

(*1)
Selects the dynamic range compression to fit the individual listening situation of the audience. This function can be used in DVD playback.
Depending on the disc, sounds may become too loud or inaudible during playback. Dolby Digital's dynamic range control allows you to adjust the sound range.

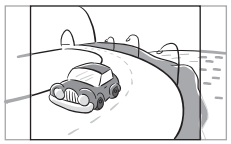
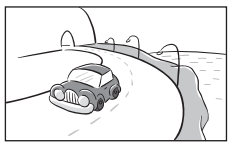
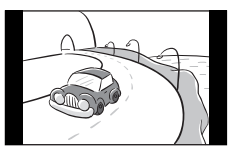
Changing the setup menu (continued)

Setup menu	Selectable parameters (* indicates default setting)				Description
VIDEO SETUP PAGE		TV MODE	P-SCAN		If connect DVD main unit (Component Video Output sockets, YP_BP_R) to TV (Component Video Input sockets with progressive-scan capability) (see page 15).
			INTERLACE*		If connect DVD main unit (Video Output socket or S-Video Output socket) to TV (Video Input socket or S-Video Input socket) (see page 14).
		HDMI SETUP	HDMI SETUP	OFF* 480p (60Hz) 720p (60Hz) 1080i (60Hz) 576p (50Hz) 720p (50Hz) 1080i (50Hz)	You can select HDMI resolution whilst using HDMI cable.
			HDCP SETUP	ON* OFF	
			VIDEO FORMAT	RGB 4:4:4* YCbCr 4:4:4	
		DivX VOD	OK		SHARP provide you the DivX registration code that allows you to rent and purchase videos using the DivX service. Please go to www.divx.com/vod for more information.
PREFERENCE PAGE		TV TYPE	PAL* AUTO NTSC		Please refer page 24.
		PBC	ON* OFF		
		AUDIO	ENGLISH* FRENCH SPANISH CHINESE JAPANESE KOREAN RUSSIAN THAI		Select the language audible from the speakers.
		SUBTITLE	ENGLISH FRENCH SPANISH CHINESE JAPANESE KOREAN RUSSIAN THAI OFF*		Select the subtitle displayed on the TV screen.

Setup menu	Selectable parameters (* indicates default setting)			Description
PREFERENCE PAGE		DISC MENU	ENGLISH* FRENCH SPANISH CHINESE JAPANESE KOREAN RUSSIAN THAI	Select the disc menu language.
		PARENTAL	1 KID SAFE 2 G 3 PG 4 PG 13 5 PGR 6 R 7 NC17 8 ADULT*	Set a restriction level for DVD viewing (for details, see page 25).
		DEFAULT	RESET	This resets all settings, except for PARENTAL and PASSWORD, to the factory defaults.
PASSWORD SETUP PAGE		PASSWORD	CHANGE	See page 25 for password setting.
EXIT SETUP				The setting is completed.

Changing the setup menu (continued)

■ TV display setting

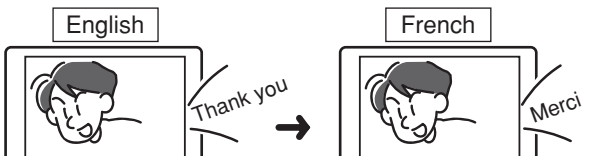
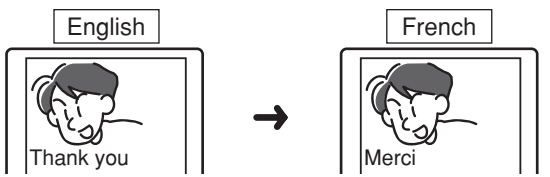
Indicator	Setting
NORMAL/PS	When playing a wide image (16:9) disc, the left and right sides of the image are cut (pan scan) to display a natural-looking 4:3 size image. A wide image disc without pan scan PS is played back in 4:3 letterbox. A 4:3 disc is played in 4:3. 
NORMAL/LB	When playing a wide image (16:9) disc, black bands are inserted at the top and bottom and you can enjoy full wide images (16:9) on a 4:3 size TV. A 4:3 disc is played in 4:3.
WIDE	A wide image (16:9) is displayed when playing a wide image (16:9) disc.  ● When playing a 4:3 image disc, the image size depends on the setting of the connected TV. ● If you play back a wide image (16:9) disc with this unit connected to a 4:3 TV, the vertically shrunk image is displayed.
WIDE SQUEEZE	When play 4:3 disc with this unit connected to a 16:9 TV (wide screen TV), the horizontally expended image is displayed. If you use this setting, a natural looking image 4:3 size can be viewed with the black bands are inserted at the left and right of the screen.  ● If you playback a wide image (16:9) disc with 4:3 TV, the vertically shrunk image is displayed.

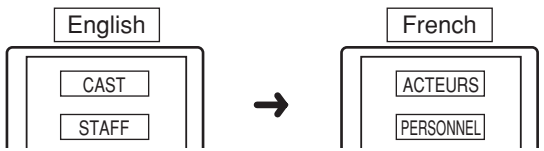
Note:
When playing the disc with a fixed video format, it will not change even if the TV screen size is changed.

■ TV type setting

Indicator	Setting
AUTO	Select this mode for the multi-system TV.
NTSC	Select this mode for the NTSC TV.
PAL	Select this mode for the PAL TV.

■ Language setting

Indicator	Setting
OSD LANG	A language for screen display can be set for the setup menu, messages, etc.
AUDIO	A language for audio can be set. You can specify a language for conversation and narration. 
SUBTITLE	A language for subtitle can be set. The subtitles are displayed in a specified language. 

DISC MENU	A language for disc menus can be set. Menu screens are displayed in a specified language. 

■ Parental setting

1 Select “PREFERENCES” on the setup menu screen (see steps 1 - 3 on page 20).

2 After selecting “PARENTAL” in step 4 on page 20, select the parental level and press the ENTER button.

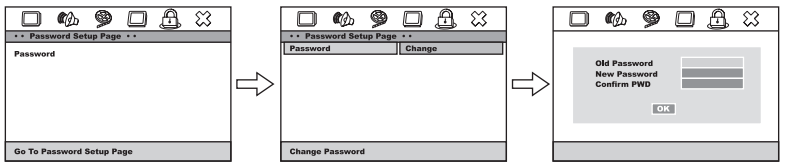
3 Enter a 6-digit password using the Direct Number buttons and press the ENTER button.
If this is the first time, enter “000000”.

Indicator	Setting
1 KID SAFE	Only DVD software intended for children can be played back.
2G to 7 NC-17	Only DVD software intended for general use and children can be played back.
8 ADULT	DVD software of any grade (adult/general/children) can be played back.

Note:
Whilst playing a disc with parental lock, the display may appear requesting a password in order to watch some restricted scenes. In such a case, enter the password to temporarily change the parental level.

■ Password setting

From the setup menu, select “PASSWORD SETUP PAGE”, “PASSWORD” and then “CHANGE”. A screen appears.



1 Enter the old password using the Direct Number buttons. (If this is the first time, enter “000000”)

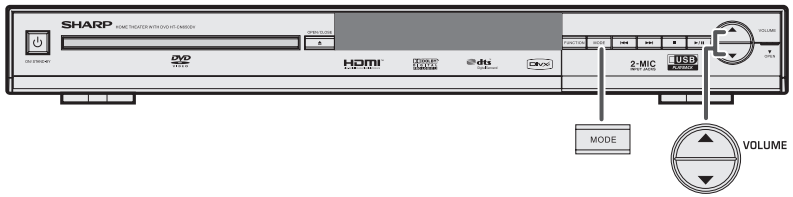
2 Enter the new password using the Direct Number buttons.

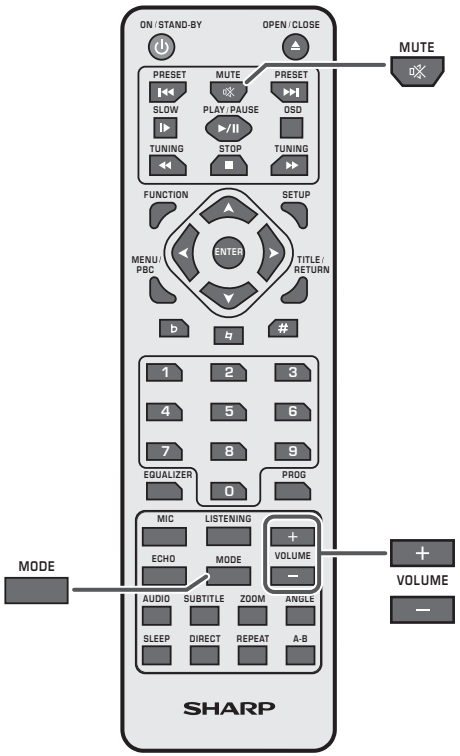
3 Enter the new password again for confirmation.

Note:
When you forget your password, follow below sequence.

At setup menu, select “PASSWORD SETUP PAGE”, “PASSWORD” and then “CHANGE”.
1 Enter the old password as “000000” using the Direct Number buttons.
2 Enter the new password.
3 Enter the new password again for confirmation.

General control





■ Volume control

Press the VOLUME + (VOLUME ▲) button to increase the volume and the VOLUME – (VOLUME ▼) button for decreasing.

Unit Display

VOL 10

MIN ↔ 1 ↔ 2 ····· 38 ↔ 39 ↔ MAX

■ Treble and Bass

1 Press the MODE button repeatedly to select the TREB or BASS.

2 Within 3 seconds, press the VOLUME + (VOLUME ▲) or VOLUME – (VOLUME ▼) button to adjust the level.
You can adjust the level at 2 dB intervals.

Unit Display

TREB 00DB

–10 dB to +10 dB

BASS 00DB

–10 dB to +10 dB

■ Muting

The volume is muted temporarily when pressing the MUTE button on the remote control.
Press again to restore the volume.

TV Display (TV Screen)

MUTE

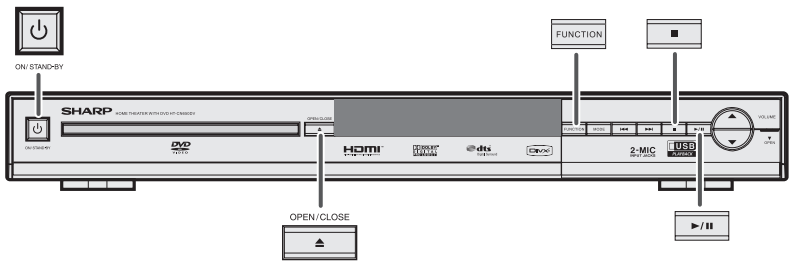
MUTE OFF

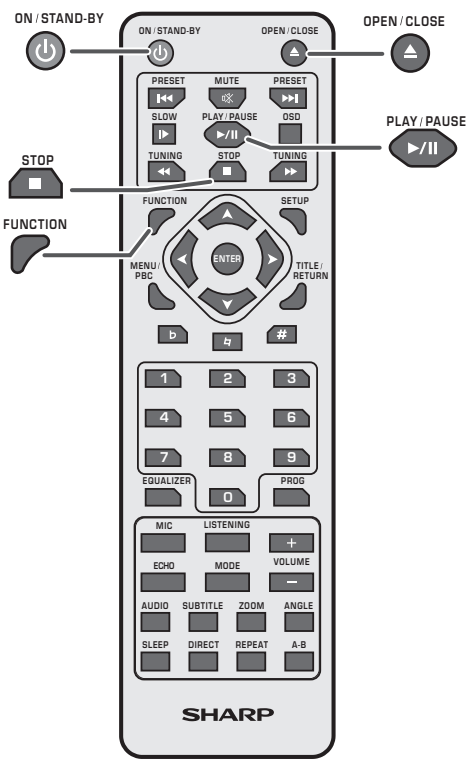
■ Auto power off function

In the stop mode of DVD function the unit enters to the stand-by mode after 20 minutes of inactivity.

DVD playback

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.





■ Playback DVD CD MP3 JPEG DivX SVCD VCD

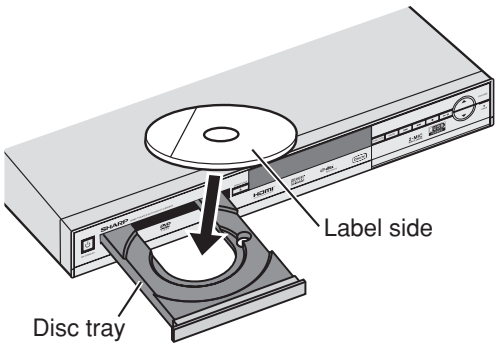
1 Press the ON/STAND-BY button to turn the power on.

2 When the input is not set to the disc mode, press the FUNCTION button repeatedly to display the startup screen.

The startup screen appears.

3 Press the ▲ OPEN/CLOSE button to open the disc tray.

4 Place the disc on the disc tray, label side up.



Be sure to place 8 cm (3") discs in the middle of the disc position.

5 Press the ▲ OPEN/CLOSE button to close the disc tray.

Discs supporting auto start will start to play once you close the disc tray even if you do not press the PLAY/PAUSE ►/II (►/II) button.

6 If playback does not start in step 5, press the PLAY/PAUSE ►/II (►/II) button.

Note:
During operate FM/AUX, OPEN/CLOSE CD tray will change to DVD function.

DVD playback (continued)

To interrupt playback
Press the PLAY/PAUSE ►/II (►/II) button.
To resume playback from the same point, press the PLAY/PAUSE ►/II (►/II) button.

To stop playback
DVD/VCD/SVCD/DivX:
Press the STOP ■ (■) button twice.

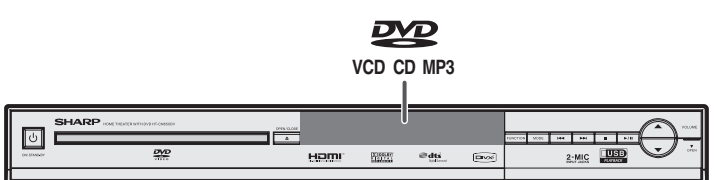
Audio CD/MP3/JPEG:
Press the STOP ■ (■) button.

When the unit is left unoperated for more than 5 minutes after pressing the STOP ■ (■) button, a screen saver appears (see page 21 when the screen saver setting is "ON").
Press any button on the main unit or remote control. The startup screen returns.

Caution:
- Close the disc tray when not in use. Otherwise, dust may accumulate inside and cause malfunction.
- The unit gets slightly warm when used for a long time. It does not mean the unit is damaged.
- When attempting to play discs with scratches or of a different region number, or unplayable or restricted (*1) discs, an error message will appear on the TV display and the disc will not play.

(*1) Viewing is prohibited on some DVDs according to the audience age.

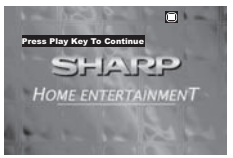
Notes:
- During disc initialisation, the volume cannot be adjusted.
- Stop positions may be recorded on some discs. When you play such a disc, playback stops there.
- During an operation, "⊘" may appear indicating that the operation is disabled by the disc.
- The main unit detects loaded discs automatically and then the indicators light up.



■ To resume playback after stopping (resume play) DVD SVCD VCD DivX

You can resume playback from the point playback is stopped.

1 Whilst a disc is playing, press the STOP ■ (■) button.
The system stores the point you stopped.



2 To restart play, press the PLAY/PAUSE ►/II (►/II) button.
Play resumes from the point you stopped.

To cancel the resume playback:
Press the STOP ■ (■) button twice.

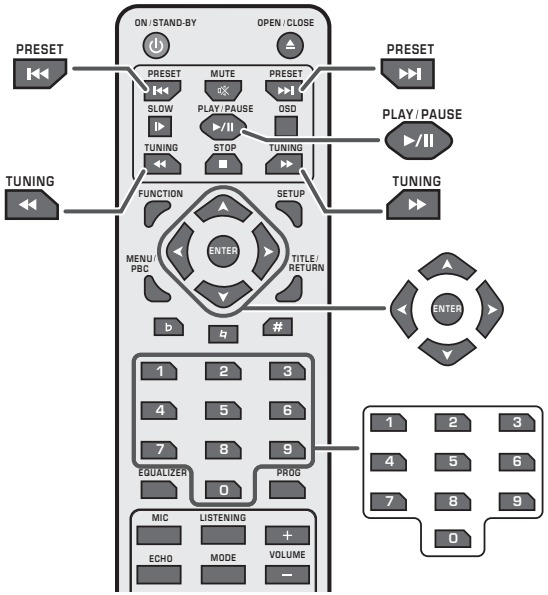
Notes:
- The resume playback feature is disabled on some discs.
- Depending on the disc, playback may resume from slightly before the stopped position.

■ DVD mode operation indicators DVD

The following are examples of operation indicators that appear during DVD playback.

Operation	TV screen	Unit display
When the power is on without a disc	NO DISC	NO DISC
Disc data is being read	LOADING	LOADING
Stop		STOP
Play		0 10 10:01:21 (TITLE CHP)
Pause		0 10 10:01:29 (TITLE CHP)

Basic operation



■ To locate the beginning of a chapter (track) (skip) DVD SVCD VCD CD MP3 JPEG

You can move to other tracks with simple operations.
When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 38).

Whilst a disc is playing, press the ⏮ or ⏭ button.

- Use the ⏭ button to skip to the next chapter (track).
- Use the ⏮ button to skip to the previous chapter (track).
- On DVD, SVCD, VCD and Audio CD, press the ⏮ button to skip to the beginning of the current track. Press the ⏮ button again (twice) to skip to the beginning of the previous track/chapter.

Notes:

- Some discs do not display the chapter (track) and the skip feature is disabled.
- On a DVD, skip does not operate between titles.
- Alternatively, press the ⏮ or ⏭ button on the main unit.

■ Fast forward/Fast reverse (search)

DVD SVCD VCD CD MP3 DivX

You can search the desired point as you play the disc.

1 Whilst a disc is playing, press the ◀◀ or ▶▶ button.

Example: When the ▶▶ button is pressed

On DVD/DivX/SVCD/VCD/Audio CD/MP3, the speed changes as follows:

PLAY (Normal play) → 2 X → 4 X → 8 X → 16 X → 32 X

The disc is forwarded by the ▶▶ button and reversed by the ◀◀ button.

2 Press the PLAY/PAUSE ⏯ button to return to the normal playback.

Notes:

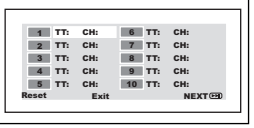
- On some discs, the search function is disabled.
- On a DVD, search does not operate between titles.
- On SVCD, VCD, audio CD and MP3, the search does not operate between tracks.
- Whilst searching on a DVD, the sound is not heard and the subtitles do not appear.
- Whilst searching on a SVCD or VCD or DivX, the sound is not heard.
- When search is performed during the DVD playback, pictures may not be forwarded or reversed in the search speed specified in this manual, depending on the disc or the scene being played.
- The search does not operate on JPEG discs.

■ To play in the desired order (programmed play) DVD

You can playback the desired tracks with titles or chapters in a specific order. Maximum of 20 tracks can be programmed.

1 Whilst in the stop or playback mode, press the PROG button.

TV screen



Continued to the next page

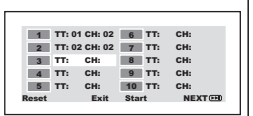
Basic operation (continued)

2 Enter title or chapter number with the Direct Number buttons.

- To specify title or track 1, enter “01” (must use 2 digits).
- If you enter the wrong numbers, press ▲ or ▼ button to select the concerned track and then re-enter the new numbers.
- To clear all the numbers those entered, press ▼ button to select “Reset” and then press ENTER button.

3 Press ▼ button to select “Start” and then press ENTER button to start playback the programmed track(s).

TV screen



To change the programmed contents:
Repeat the above procedures from step 1.

Programmed contents will be cleared when you perform the following operations:

- Switch the input or remove the discs.
- Set to the stand-by mode.

■ To start playback from the desired point (direct play) DVD

To select and play the desired title and chapter:
In the stop mode

1 Whilst in the stop mode, press the DIRECT button.

TV screen

TITLE 01/02 CHAPTER 001/002

2 Within 10 seconds, enter the title number first then only can enter the chapter number by using the Direct Number buttons. You can also press ◄ or ► button at this time for title or chapter selection.

Example:

To select title or chapter 1: Press “01”.

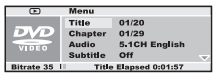
To select title or chapter 12: Press “1” and “2”.

To select title or chapter 22: Press “2” and “2”.

In the playback mode

1 Whilst in the playback mode, press the DIRECT button.

TV screen



2 Select the title or chapter by pressing the ▲ or ▼ button and press the ENTER button.

3 Enter the title or chapter number using the Direct Number buttons.

To select chapter 1: Press “0” and “1”.

To select chapter 12: Press “1” and “2”.

Playback starts after you complete enter the number(s) (bottom).

4 Press the DIRECT button to return to the actual size of image (standard screen).

Notes:

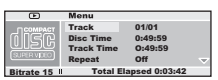
- Direct play feature is disabled on some discs.
- Some discs may not display the chapter number.
- With DVDs, you can specify the desired point only in the current title and not in another title.

To play by specifying time (time search):
You can playback from the desired point by specifying the time.

In the playback mode

1 Whilst in the playback mode, press the DIRECT button.

TV screen



2 Press ▼ or ▲ button to select “TT Time” then press the ENTER button.

3 Specify the time with the Direct Number buttons.

TT Time 1:23:40

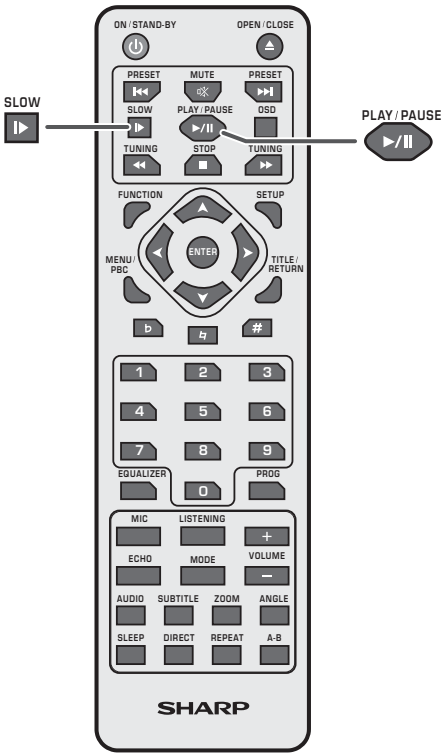
- To specify 1 hour 23 minutes and 40 seconds, enter “12340”.
- If you enter the wrong number, start over from step 1.
- Playback starts after you complete enter the number(s) (on the bottom of column).

4 Press the DIRECT button to return to the actual size of image (standard screen).

Notes:

- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.

Useful operation

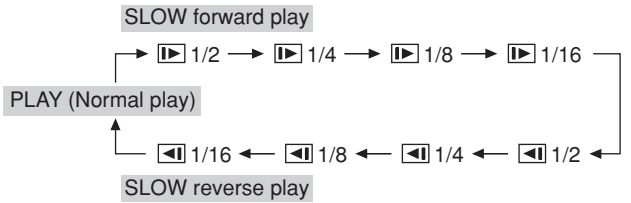


■ Slow-motion play DVD SVCD VCD DivX

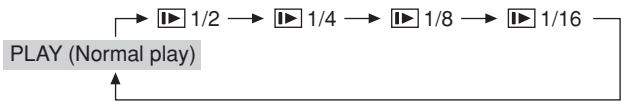
You can slow down the playback speed.

1 Whilst a disc is playing, press the SLOW ▮► button repeatedly to select the desired speed.

On DVD, the speed changes as follows:



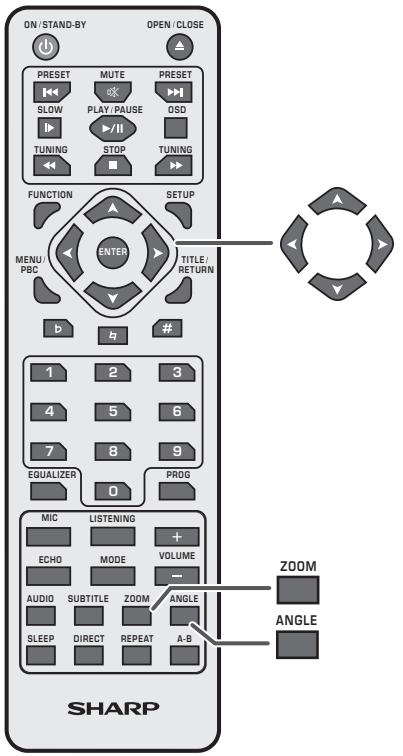
On SVCD/VCD/DivX, only forward play is possible and the speed changes as follows:



2 Press the PLAY/PAUSE ►/II button to return to the normal playback.

Note:
On some discs, the slow-motion play functions are disabled.

Useful operation (continued)



■ To change the angle DVD

You can change the angle of view when playing a DVD disc that contains scenes recorded from multiple angles.

When "" is displayed in the upper right corner of the TV screen, press the ANGLE button repeatedly to select the desired angle number.

Notes:
- The angle number is not displayed if angles are not recorded on the disc.
- Refer to the manual of the disc as the operation may vary depending on the disc.

■ To zoom images (zoom) DVD SVCD VCD DivX

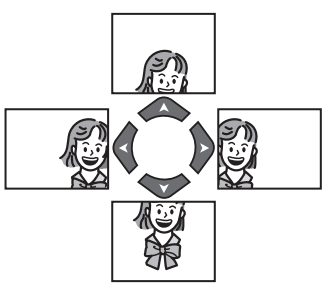
You can magnify images during playback.

1 Whilst a disc is playing, press the ZOOM button.

Each press of the ZOOM button cycles through the zoom settings as follows:

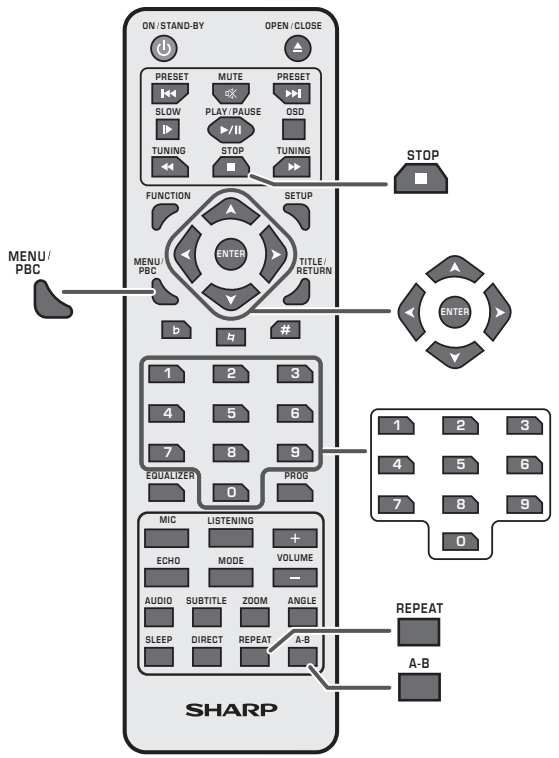
2 X → 3 X → 4 X → 1/2 → 1/3 → 1/4 → OFF

2 To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◄ or ► button repeatedly.



To return to normal view:
Press the ZOOM button repeatedly.

Notes:
- Images may become distorted when zoomed.
- Subtitles cannot be zoomed.



■ To play repeatedly (repeat play)

DVD SVCD VCD CD

You can play a chapter (track) or a title repeatedly by specifying it during playback.
When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 38).

1 Whilst a disc is playing, press the REPEAT button.

TV screen	Unit display
↻ CHAPTER	REP 1

Each time the button is pressed, the repeat play mode changes in the following order.

The repeat play mode changes as follows on DVD:

"↻ CHAPTER"	"REP 1"	Repeat the currently playing chapter.
"↻ TITLE"	"REP"	Repeat the currently playing title.
"↻ ALL"	"REP"	Repeat the currently playing disc.
"REPEAT OFF"	No display	The normal playback.

The repeat play mode changes as follows on SVCD/VCD:

"↻ TRACK"	"REP 1"	Repeat the currently playing track.
"↻ ALL"	"REP"	Repeat the currently playing disc.
"REPEAT OFF"	No display	The normal playback.

The repeat play mode changes as follows on audio CD:

"↻ TRACK"	"REP 1"	Repeat the currently playing track.
"↻ ALL"	"REP"	Repeat the currently playing disc.
"SHUFFLE"	"SHUFF"	Randomly play the track.
"REPEAT OFF"	No display	The normal playback.

MP3, DivX and JPEG are displayed when menu screen is "ON" (see page 40).

2 To return to the normal playback, press the REPEAT button repeatedly until "REPEAT OFF" on TV screen.

Caution:
After performing repeat play, be sure to press the STOP ■ button. Otherwise, the disc will play continuously.

Note:
On some discs, the repeat play function is disabled.

■ To play the contents between the specified points repeatedly (A-B repeat)

DVD SVCD VCD CD MP3 DivX

You can play the desired portion repeatedly by specifying it during playback.

1 Whilst a disc is playing, press the A - B button.

TV screen / Unit display

This registers the start point (A).

2 Press the A - B button again to enter the end point (B).

This starts A-B repeat from the start point (A) to the end point (B).

3 Press the A - B button to return to the normal playback.

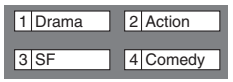
Notes:
- A-B repeat play is disabled on some discs.
- A-B repeat play for DVD is possible only within a title.
- A-B repeat play for SVCD/VCD/CD/MP3/DivX is possible only within a track.
- Some scenes on DVD may not allow A-B repeat play.

■ To select a title from the top menu of the disc DVD

On a DVD with multiple titles, you can select a title from the top menu.

1 Whilst in the stop or playback mode, press the TITLE/RETURN button to display the title menu.

Example



2 Use the ▲, ▼, ◄ or ► button to select a title, and then press the ENTER button.
- The selected title plays.
- Or use the Direct Number buttons for some discs.

Note:
The procedure shown here provides only general steps. The actual procedure for using the title menu depends on the disc. See the disc jacket for details.

■ To select a subtitle or audio language from the disc menu DVD

You can select the desired subtitle or audio language and sound system [Dolby Digital (5.1ch) or DTS sound] on your DVD if it has a disc menu.

1 Whilst in the stop or playback mode, press the TITLE/RETURN button to display the disc menu.

Example

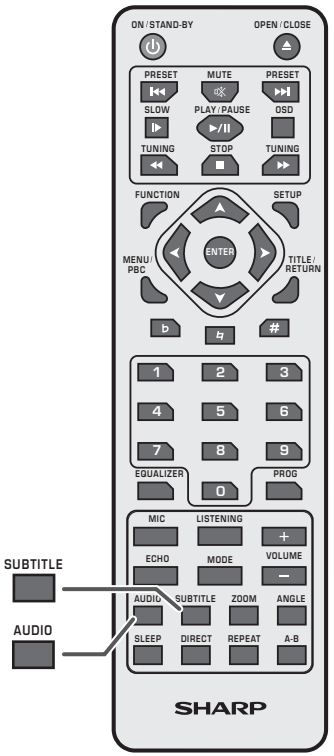
2 Press the ▲, ▼, ◄ or ► button to change the setting and press the ENTER button.

Or use the Direct Number buttons for some discs.

Note:
The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc. See the disc jacket for details.

Various settings

The subtitle language, audio language and TV type you select during playback are reset each time you set this unit to the stand-by mode or switch the input. To keep your own settings, set them in the setup menu (see page 20).



■ To change the subtitle language DVD SVCD DivX

You can change the subtitle language or hide subtitles during playback.

Whilst a disc is playing, press the SUBTITLE button repeatedly to select the desired subtitle language.

SUBTITLE 01/03: ENGLISH

Notes:

- On some discs, the subtitle language cannot be changed.
- If no subtitles are recorded on the disc, "⊘" is displayed.
- It may take time to switch the subtitle language to the selected one.
- Subtitles cannot be hidden on some DVDs.

Various settings (continued)

■ To change the audio channel DVD SVCD VCD

You can select an audio channel.

Whilst a disc is playing, press the AUDIO button repeatedly to select the desired audio channel.

The audio channel changes as follows on DVD:

Audio 1/3: AC3 5 CH English → Audio 2/3: AC3 2 CH English → Audio 3/3: DTS 5.1 CH English → Audio 1/3: AC3 5 CH English

The audio channel changes as follows on SVCD:

Audio 1 → Audio 2 → Audio 3 → Audio 4 → Audio 1

The audio channel changes as follows on VCD:

Mono Left → Mono Right → Mix Mono → Stereo → Mono Left

Note:
The audio channel may not be changed on some discs.

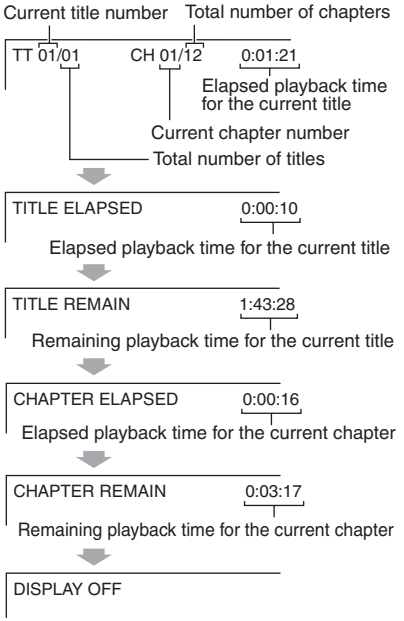
■ To change the display on TV screen

DVD SVCD VCD CD DivX

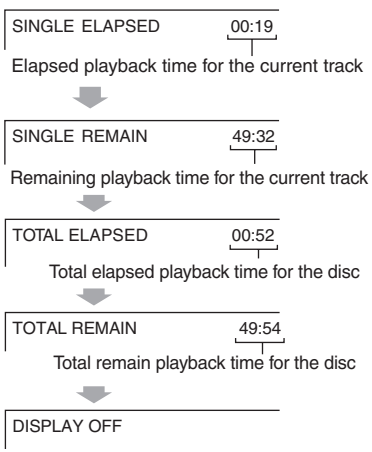
You can display or hide the operation indicators on the TV screen.

Whilst a disc is playing, press the OSD button. (The display is changed at each press.)

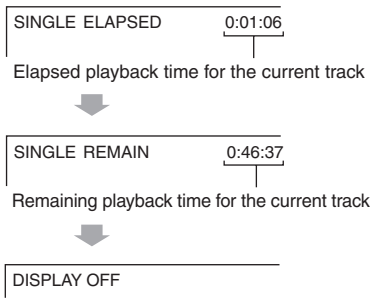
DVD:


Current title number
Total number of chapters
TT 01/01
CH 01/12
0:01:21
Elapsed playback time for the current title
Current chapter number
Total number of titles
TITLE ELAPSED 0:00:10
Elapsed playback time for the current title
TITLE REMAIN 1:43:28
Remaining playback time for the current title
CHAPTER ELAPSED 0:00:16
Elapsed playback time for the current chapter
CHAPTER REMAIN 0:03:17
Remaining playback time for the current chapter
DISPLAY OFF

SVCD/VCD/CD:


SINGLE ELAPSED 00:19
Elapsed playback time for the current track
SINGLE REMAIN 49:32
Remaining playback time for the current track
TOTAL ELAPSED 00:52
Total elapsed playback time for the disc
TOTAL REMAIN 49:54
Total remain playback time for the disc
DISPLAY OFF

DivX:


SINGLE ELAPSED 0:01:06
Elapsed playback time for the current track
SINGLE REMAIN 0:46:37
Remaining playback time for the current track
DISPLAY OFF

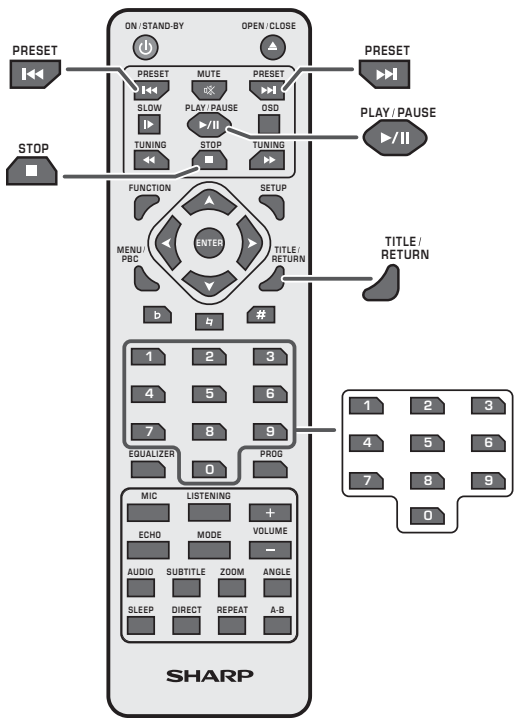
Note:

When P.B.C. is set to ON for SVCD or VCD, total elapsed playback time and total remaining playback time do not appear.

Video CD and Super Video CD playback

The following playback functions are the same as DVD or CD operations.

	Page
To locate the beginning of a chapter (track) (skip)	29
Fast forward/Fast reverse (search)	29
Slow-motion play	31
To zoom images (zoom)	32
To play repeatedly (repeat play)	33
To play the contents between the specified points repeatedly (A-B repeat)	34
To change the subtitle language	35
To change the audio channel.	36
To change the display on TV screen	36
To play in the desired order (programmed play)	39



■ Playback of a video CD (super video CD) with P.B.C. SVCD VCD

1 Press the MENU/PBC button with PBC ON.

The menu will appear on the TV and playback will be paused.

Example

2 Select the desired menu number using the Direct Number buttons.

- Playback starts.
- After playback stops, the menu will reappear. Select the menu number to play.

To interrupt playback:
Press the PLAY/PAUSE ►/II button.
To resume playback from the same point, press the PLAY/PAUSE ►/II button.

To stop playback:
Press the STOP ■ button.

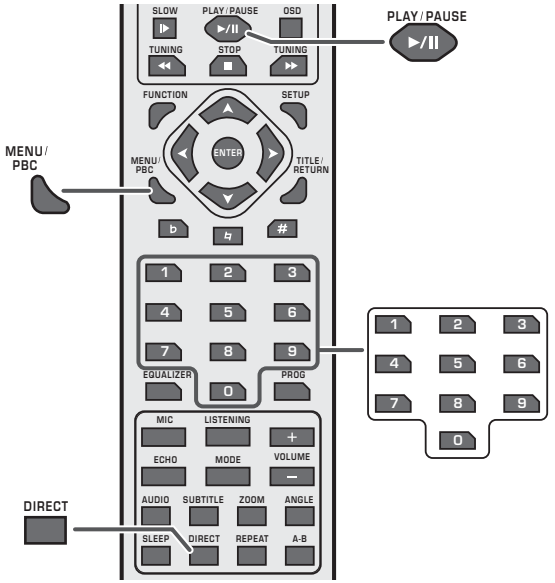
To stop the current operation and return to the menu:
Press the TITLE/RETURN button.

To scroll the menu screen (menu screen with more than 1 page):
Press the PRESET I◄◄ or PRESET ►►I button.

The P.B.C. function will not work in the following conditions.
Repeat/programmed/direct play or the skip feature is in operation.

Note:
The menu screen cannot be scrolled on some discs.

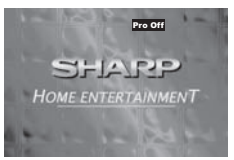
Video CD and Super Video CD playback (continued)



■ To play without activating the playback control function SVCD VCD

You can play a video CD (super video CD) with P.B.C. without activating the playback control function.
In this case, the menu screen will not appear, and the disc will play in the same way as a video CD (super video CD) without P.B.C.

1 Whilst in the stop or playback mode, press the MENU/PBC button to cancel the P.B.C. mode.



2 Press the PLAY/PAUSE ►/II button.

Playback starts.

Note:
Some video CDs (super video CDs) with P.B.C. cannot be played back when the P.B.C. mode is off.

■ To start playback from the desired point (direct play)

To play by specifying time (time search): SVCD VCD
Cancel the P.B.C. (playback control).

1 During stop, press the DIRECT button.

DISC GO TO: __:__

2 Specify the time with the Direct Number buttons.

- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, enter “8340”.
- If you enter the wrong number, start over from step 1.
- Playback starts (automatically) after you complete enter the number(s).

In the playback mode:

1 Whilst in the playback mode, press the DIRECT button.

2 Press ▼ or ▲ button to select “Track Time” then press the ENTER button.

3 Specify the time with the Direct Number buttons.

Track Time 1:23:40

- To specify 1 hour 23 minutes and 40 seconds, enter “12340”.
- If you enter the wrong number, start over from step 1.
- Playback starts (automatically) after you complete enter the number(s).

4 Press the DIRECT button to return to the actual size of image (standard screen).

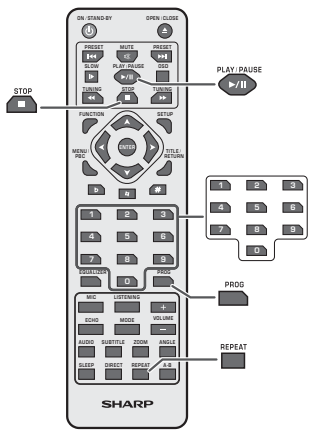
Notes:
- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.
- Time search feature is not available on MP3 and JPEG discs.

CD operation

The following playback functions are the same as DVD or VCD operations.

Page

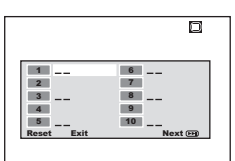
Playback 27
To locate the beginning of a chapter (track) (skip) 29
Fast forward/Fast reverse (search) 29
To play repeatedly (repeat play) 33
To play the contents between the specified points repeatedly (A-B repeat) . . 34
To change the display on TV screen 36



■ To play in the desired order (programmed play) CD SVCD VCD

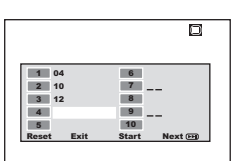
You can playback the desired tracks in a specific order.
Maximum of 20 tracks can be programmed.

1 Whilst in the stop or playback mode, press the PROG button.



2 Enter a track number with the Direct Number buttons.

- If you enter the wrong number, press ▲ or ▼ button to select the concerned track and then re-enter the correct number.
- To clear all the numbers those entered, press ▼ button to select “Reset” and then press ENTER button.



3 Press ▼ button to select “Start” and then press ENTER button to start playback the programmed track(s).

To change the programmed contents:
Repeat the above procedures from step 1.

Programmed contents will be cleared when you perform the following operations:

- Switch the input or remove the discs.
- Set to the stand-by mode.

Notes:

- Sequential programming does not work if the disc disables programming or does not have track information.
- During programmed play, repeat play can be performed by pressing the REPEAT button (see page 33).

■ To start playback from the desired point (direct play)

To select and play the desired track: CD

Whilst in the stop or playback mode, press the Direct Number buttons to select the track number.
To select track 14: Press “1” and “4”.

TV screen	Unit display
SELECT TRACK: 14	▸14 0:00:05

To play by specifying time (time search): CD

1 During stop or playback mode, press the DIRECT button repeatedly until “DISC GO TO” appear on TV screen.

TV screen

DISC GO TO: __:__

2 Specify the time with the Direct Number buttons.

- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, enter “8340”.
- If you enter the wrong number, start over from step 1.

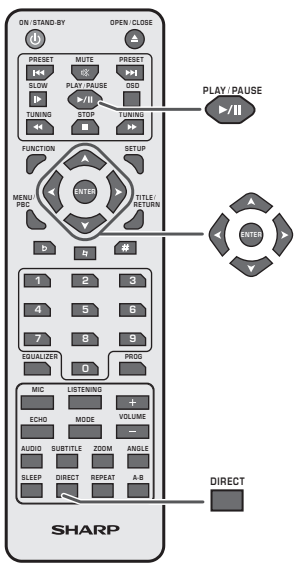
Notes:

- Direct play feature is disabled on some discs.
- Some disc cannot play from the specified point.
- Time search feature is disabled on some discs.

MP3/WMA, JPEG and DivX disc operation

The following playback functions are the same as DVD or VCD operations.

Page
Playback 27
To locate the beginning of a chapter (track) (skip) 29
Fast forward/Fast reverse (search) 29
To play repeatedly (repeat play) 33
To change the display on TV screen 36
To zoom images (zoom) 32
To play the contents between the specified points repeatedly (A-B repeat) . . 34



■ To start playback from the desired point (direct play)

To play by specifying time (time search): DivX

1 During playback, press the DIRECT button twice.

TV screen

GO TO _:__:__

2 Specify the time with the Direct Number buttons.

- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, enter “12340”.
- If you enter the wrong number, start over from step 1.
- You can check the total playback time of the track by refer to the page 36.

To select and play the desired track: MP3

1 Whilst in the stop or playback mode, press the Direct Number buttons or press DIRECT button and then enter the desired track number(s).

TV screen

---/150
Total of tracks

If the desired track is 25, press “2” and “5”.

2 Press ENTER button to start playback.

Notes:

- Direct play feature is disabled on some discs.
- Some discs cannot play from the specified point.

■ Playback on the menu screen MP3 JPEG

You can play CD-R/RW recorded in the MP3/WMA and JPEG formats.

1 Load a disc containing MP3/WMA, JPEG and DivX files, the menu screen appear.

··· Indicates folders.
··· Indicates MP3 data.
··· Indicates WMA data.
··· Indicates JPEG data.

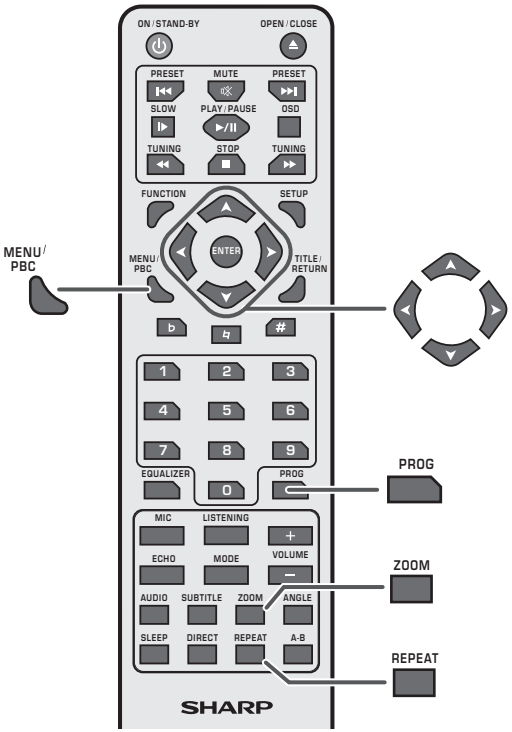
2 Press the ▲, ▼, ◄ or ► button to select a folder or a track and press the ENTER or PLAY/PAUSE ►/II button.

- Playback starts when you select a track.
- When the format is JPEG, the next file is automatically displayed after a whilst.
- You can use the ◄ or ► button to rotate the JPEG picture (see page 42).
- Using the Direct Number buttons, you can open files or folders directly. Enter the number on the right of the display.

Caution:
If you convert MP3 data to “audio CD” data to record on a CD-R/RW, play it as an audio CD. The MP3 operation cannot be performed.

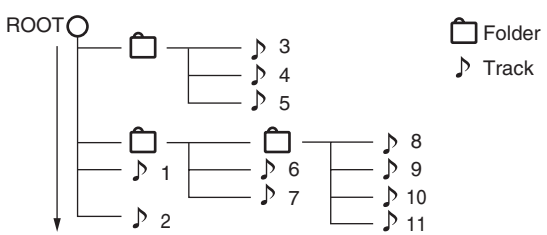
Notes:

- Up to 7 characters can be displayed for a folder name and a track name. Underlines, asterisks, and spaces may not be displayed.
- This function is only visible when the unit is connected to TV.



About folder playback order:

When the MP3/WMA menu screen is on, tracks are played in the following order. Playback is performed in the order of 1 to 11 in the following example.



Tracks on some discs cannot be played in order.

■ To play repeatedly (repeat play) MP3 JPEG DivX

Repeat play on the DivX menu screen:

Whilst a disc is playing, press the REPEAT button.
Each time the button is pressed, the repeat play mode changes in the following order.

TV screen	Unit display	
"SHUFFLE"	"SHUFF"	Randomly repeat play the tracks.
"SINGLE"	No display	No repeat the currently playing track.
"REPEAT ONE"	"REP 1"	Repeat the currently playing track.
"REPEAT ALL"	"REP"	Repeat all the tracks.
"REPEAT OFF"	No display	Repeat play is cancelled.

Repeat play on the JPEG menu screen:

Condition A

You can play images after select each folder inside the disc. The playback will stop after complete playback all the images in the currently playing folder.
To perform repeat play, press the REPEAT button whilst in the playback mode. Each time the button is pressed, the play mode changes in the following order.

TV screen	Unit display	
"SHUFFLE"	"SHUFF"	Randomly repeat play the tracks (images).
"SINGLE"	No display	No repeat the currently playing tracks (images).
"REPEAT ONE"	"REP 1"	Repeat the currently playing track (image).
"REPEAT ALL"	"REP"	Repeat play all the tracks (images) in the currently playing folder.
"REPEAT OFF"	No display	Repeat play is cancelled.

Condition B

You can continuous play all images in the disc. Whilst in the main menu screen, press the PROG button. All the image files will be viewed on the TV screen (folder off).
Playback will stop after complete playback all the images in the disc.
To perform repeat play, press the REPEAT button whilst in the playback mode. Each time the button is pressed, the play mode changes in the following order.

Continued to the next page

MP3/WMA, JPEG and DivX disc operation (continued)

TV screen	Unit display	
"SHUFFLE"	"SHUFF"	Randomly repeat play the tracks (images).
"SINGLE"	No display	No repeat the currently playing tracks (images).
"REPEAT ONE"	"REP 1"	Repeat the currently playing track (image).
"REPEAT ALL"	"REP"	Repeat play all the tracks (images) in the disc.
"REPEAT OFF"	No display	Repeat play is cancelled.

Notes:
- To view back the folders, press the PROG button whilst in the main menu screen.
- To return to the main menu screen whilst playback, press STOP ■ (■) button. Then, press MENU/PBC button.

Repeat play on the MP3/WMA menu screen:
Condition A
You can play songs after select each folder inside the disc. The playback will stop after complete playback all the songs in the currently playing folder.
To perform repeat play, press the REPEAT button whilst in the playback mode. Each time the button is pressed, the play mode changes in the following order.

TV screen	Unit display	
"SHUFFLE"	"SHUFF"	Randomly repeat play the tracks (songs).
"SINGLE"	No display	No repeat the currently playing tracks (songs).
"REPEAT ONE"	"REP 1"	Repeat the currently playing track (song).
"REPEAT FOLDER"	"REP"	Repeat play all the tracks (songs) in the currently playing folder.
"FOLDER"	No display	Repeat play is cancelled.

Condition B
You can continuous play all songs in the disc. Whilst in the main menu screen, press the PROG button. All the song files will be viewed on TV screen (folder off).
Playback will stop after complete playback all the songs in the disc.
To perform repeat play, press the REPEAT button whilst in the playback mode. Each time the button is pressed, the play mode changes in the following order.

TV screen	Unit display	
"SHUFFLE"	"SHUFF"	Randomly repeat play the tracks (songs).
"SINGLE"	No display	No repeat the currently playing tracks (song).
"REPEAT ONE"	"REP 1"	Repeat the currently playing track (song).
"REPEAT FOLDER"	"REP"	Repeat play all the tracks (songs) in the disc.
"FOLDER"	No display	Repeat play is cancelled.

Note:
To view back the folders, press the PROG button whilst in playback or stop mode.

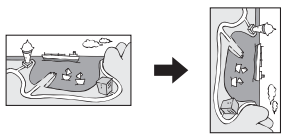
■ Rotating a picture JPEG

You can rotate images.

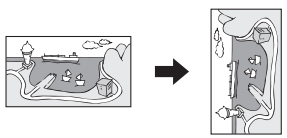
During playback, press the ◄ or ► button.

The image rotates as shown below.

► button : 90˚ rotation in a clockwise direction.



◄ button : 90˚ rotation in an anti-clockwise direction.



■ Simultaneously playback the MP3/WMA and JPEG

You can enjoy to see images of JPEG files whilst listening to the musics of MP3 at the same time.

1	**Playback the desired songs.**
2	**Press ◄ button to return to the main menu.**
3	**Select JPEG folder using ▲ or ▼ button.**
4	**Select the images or pictures those you want to view.**
5	**Press the ENTER button.**

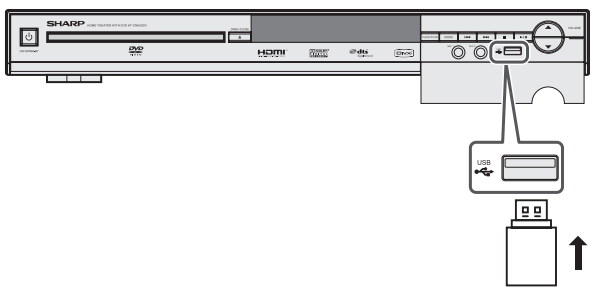
Note:
Whilst playing the images, you cannot select the MP3/WMA folder or files.

USB memory device operation

■ Playback on USB memory device JPEG MP3

You can play USB recorded in JPEG and MP3/WMA formats.

1 Plug in USB memory device to unit and wait for a statement "Press FUNCTION to select device" appear on the TV screen. After that press FUNCTION button until "WAITING" appear on TV screen and main unit.



2 After menu screen appear, press ▲, ▼, ◄ or ► button to select a folder or a track and then press the ENTER or PLAY/PAUSE button.

··· Indicates folders.

··· Indicates MP3 data.

··· Indicates WMA data.

··· Indicates JPEG data.

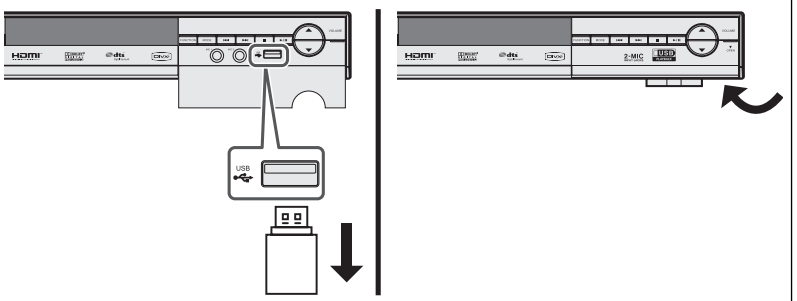
- Playback starts when you select a track.
- When the format JPEG, the next file is automatically displayed after a whilst.
- Using the Direct Number buttons, you can open file or folder directly.
- You can use the ◄ or ► button to rotate the JPEG picture (see page 42).

■ To remove USB memory device

1 Press the STOP ■ button.

2 Disconnect USB memory device from the terminal (unit).

3 Close terminal door.



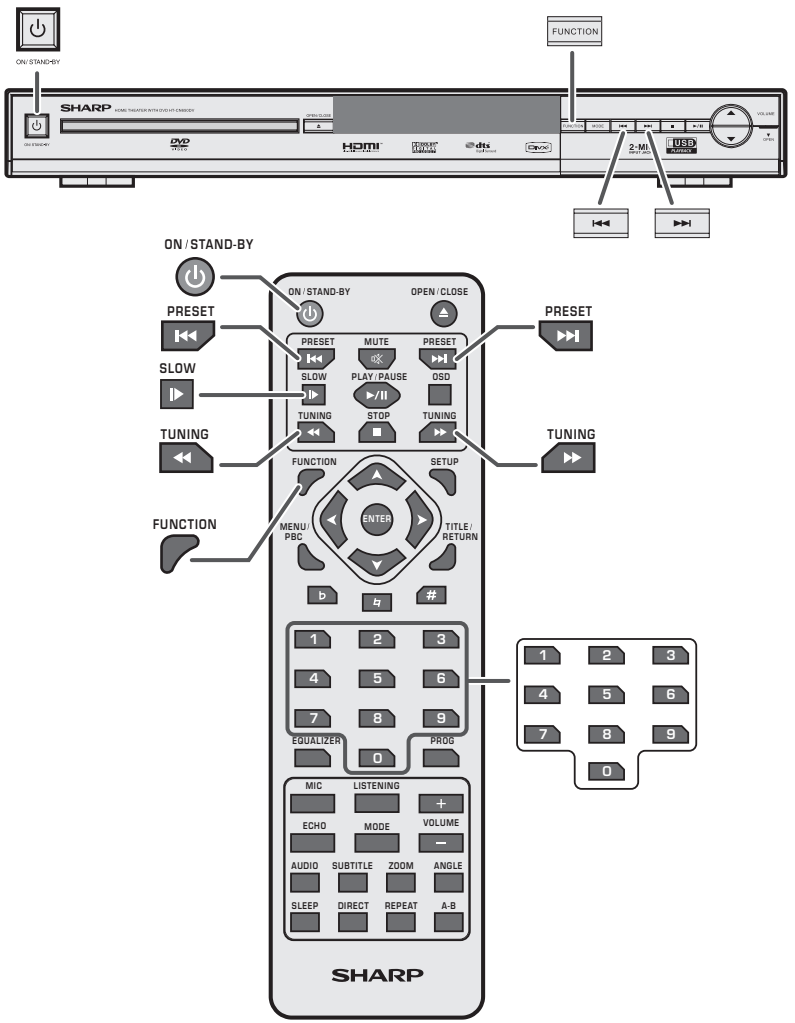
The following playback functions are the same as DVD or VCD operation.

	Page
Fast forward/Fast reverse	**29**
Slow-motion play	**31**
To zoom images (zoom)	**32**
To play repeatedly (repeat play)	**33**
To play the contents between the specified points repeatedly (A - B repeat)	**34**

Notes:

- SHARP will not be held liable for the loss of data whilst the USB memory device is connected to the audio system.
- The USB memory's format support FAT16 or FAT32.
- SHARP cannot guarantee that all USB memory devices will work on this audio system.
- This USB memory cannot be operated via USB hub.
- If recorded file is not displayed in the main menu, it means that this format is not supported.
- The USB terminal in this unit is not intended for a PC connection but is used for music, video and image streaming with a USB memory device.
- The larger the capacity of the USB storage device, the longer it will take for the data to be read.
- Some USB multi-reader devices may not work correctly with the USB terminal.

Listening to the radio

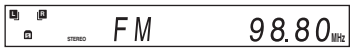


Note:
This product can receive FM stereo/ FM monaural broadcasts.

■ Manual or Auto tuning

1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button repeatedly to select tuner mode.



3 Press the TUNING ◄◄ or TUNING ►► button for a few seconds to tune in to the desired station.

Manual tuning:

Press the TUNING ◄◄ or TUNING ►► button as many times as required to tune in the desired station.

Auto tuning:

When the TUNING ◄◄ or TUNING ►► button is pressed for 0.5 seconds or more, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING ◄◄ or TUNING ►► button again.

When an FM stereo broadcast is received.

- "STEREO" will appear.

FM stereo receiving indicator

- If the FM reception is week, press the AUDIO button to extinguish the "STEREO" indicator. The reception changes to monaural and the sound becomes clearer.

Note:
You can select the sound mode by refering the page 47.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

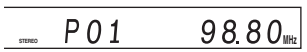
■ Memorising a station

You can store 40 FM stations in memory and recall them at the push of a button. (Preset tuning)

1 **Perform steps 1 - 3 in “Manual or Auto tuning” on page 44.**

2 **Press the PROG button to enter the preset tuning saving mode.**

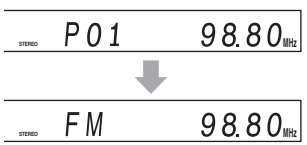
3 **Press the Direct Number buttons to select the preset channel number.**



Example:
To select preset channel 1: Press “1”.
To select preset channel 12: Press “1” and “2”.
To select preset channel 22: Press “2” and “2”.

Store the stations in memory, in order, starting with preset channel 1.

4 **Press the ENTER button to save the station to memory.**



5 **Repeat steps 1 - 4 to set other stations, or to change a preset station.**

When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

■ To recall a memorised station

1 **Press the FUNCTION button to select FM mode.**

2 **Press the PRESET ⏮ or PRESET ⏭ button to select the desired station.**

Preset channel — Frequency and frequency band

You can use the Direct Number buttons.

■ Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search and store for stations. Up to 40 stations can be stored.

1 **Press the ON/STAND-BY button to turn power on.**

2 **Press the FUNCTION button to select tuner mode.**

3 **Press PROG button for more than 3 seconds.**

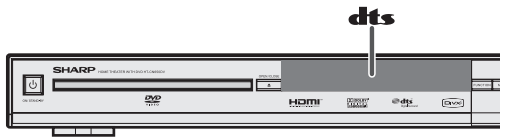
1. Station scanning will start from 87.5 MHz to 108.0 MHz.
2. Every station that found will be stored in memory.
3. After scanning, it will stop at the first memory station (at the lowest frequency).

Note:
You cannot stop the ASPM operation before it is complete.

Enjoying various sounds

DTS (Digital Theatre Systems)

Digital input from discs with this trademark

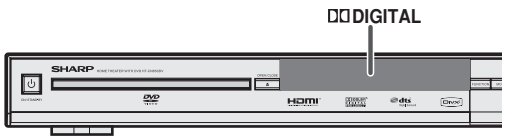


One of the digital audio systems for theatrical use. As the sound quality is emphasised, you can enjoy the realistic sound effect in the home theatre system.

The DTS indicator will light up when the disc recorded in DTS is played back.

Dolby Digital

Digital input from discs with this trademark

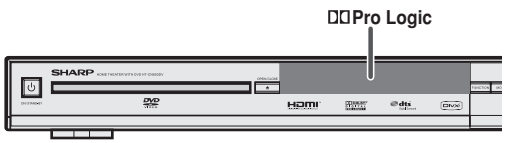


One of the digital audio systems for theatrical use. You can enjoy the stereophonic effect in the home theatre system.

The DIGITAL indicator will light up when the disc recorded in DIGITAL is played back.

Dolby Pro Logic

Inputs from stereo-recorded discs, video tapes, etc.



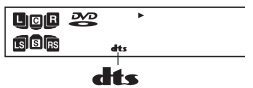
You can produce 2-channel stereo signals on audio CD, video CD, or AUX from all the speakers.

The Pro Logic indicator will light up when the Dolby Pro Logic surround is activated.

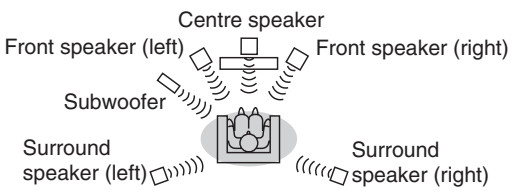
■ DTS or Dolby Digital Surround

Enjoy DTS or Dolby Digital sound in 5.1 or 2-channel.

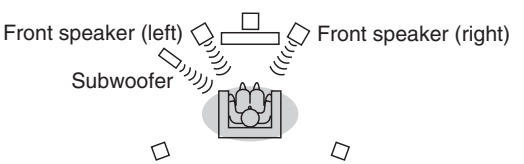
Whilst a disc is playing, press the LISTENING button repeatedly to select the desired listening mode.

	Unit display	TV screen
5.1ch surround sound: Example:DTS		DTS 5.1
2-ch stereo sound:		DTS STEREO

5.1ch surround sound:
Enjoy 5.1-channel surround sound.



2-ch stereo sound:
Enjoy 2-channel stereo sound.



■ Dolby Pro Logic Surround

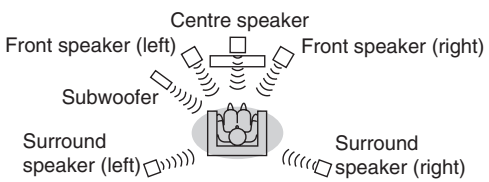
You can produce 2-channel stereo signals on tuner, audio CD, video CD, or AUX from all the speakers, or switch to 2-channel.

Whilst a disc is playing, press the LISTENING button repeatedly to select the desired listening mode.

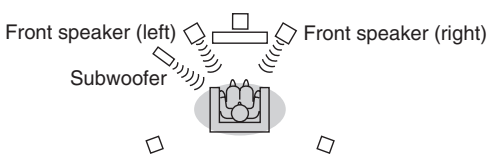
	Unit display	TV screen
Dolby Pro Logic surround:		PLII MOVIE
2-ch stereo sound:		STEREO

When using AUX, the information does not appear on the TV screen.

Dolby Pro Logic surround:
You can produce sound from all the speakers.

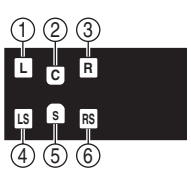


2-ch stereo sound:
Enjoy 2-channel stereo sound.

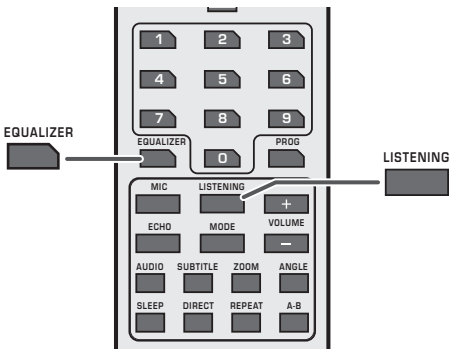


Speaker indicators:
Speaker indicators show speakers in use.

① Left Front Speaker Indicator
② Centre Speaker Indicator
③ Right Front Speaker Indicator
④ Left Surround Speaker Indicator
⑤ Subwoofer Indicator
⑥ Right Surround Speaker Indicator



Notes:
- You can switch the audio whilst playing the disc of multiple types (Dolby Digital, DTS, etc.) (page 36).
- When the listening mode is set to stereo, the same monaural sound is reproduced in both the right and left channels.



■ To change the sound effect (Equaliser)

You can change the sound effect (Equaliser), press EQUALIZER button repeatedly to cyclicity select the preset equaliser mode: JAZZ → ROCK → POP → CLASSIC.

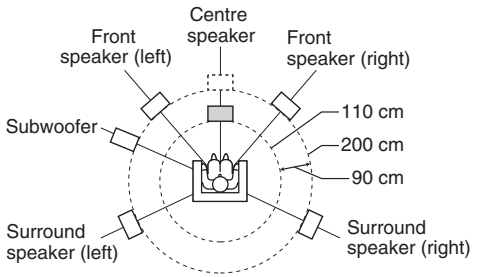
Adjusting channel delay/speaker level

When speakers cannot be placed at equal distances, change speaker settings to enjoy surround effects as if they were equally placed.

Example:

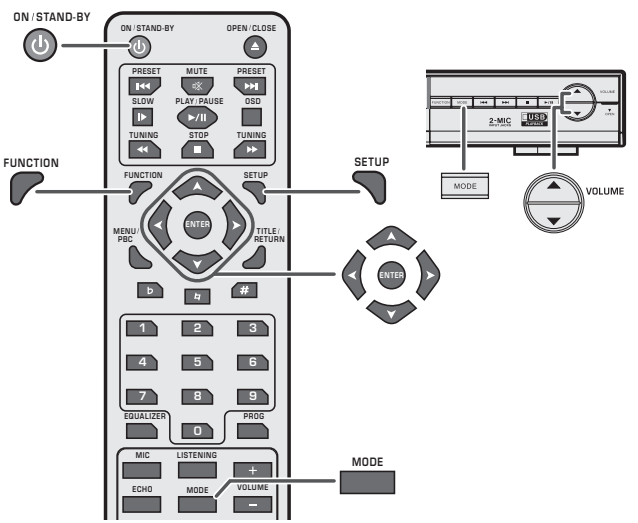
If the centre speaker is closer to the listening position than others by about 90 cm, set as follows.

Sound from the centre speaker needs to be delayed for 90 cm. The delay time of 1 ms corresponds to 30 cm. Sound is heard as if all the speakers were equally placed.



1 The centre speaker is closer to the listener than others. In “Speaker level setting”, adjust the centre speaker level (see page 49).

2 In “Test tone”, check the sound from each speaker (see page 49).



■ Channel delay setting

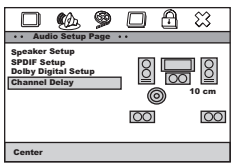
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the FUNCTION button to select DVD mode.**

3 **Press the SETUP button.**

4 **Press the ◄ or ► button to select “AUDIO SETUP PAGE” and then press the ENTER button.**

5 **Press the ▲ or ▼ button to select “CHANNEL DELAY” and then press the ENTER button.**



6 **Press the ▲ or ▼ button to select the desired speaker type.**

7 **Press ◄ or ► button to select the desired distance.**

8 **To complete the channel delay setting, press the SETUP button.**

■ Test tone

You can check the sound output from the speakers.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button to select DVD mode.

3 Press the SETUP button.

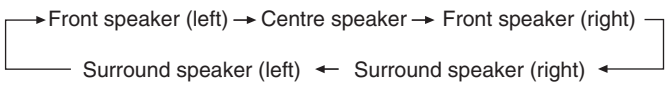
4 Press the ENTER button.

5 Press the ▼ button to select “SPEAKER SETUP” and then press the ENTER button.

6 Press the ► button and use the ▲ or ▼ button to select “TEST TONE ON”.

7 Press the ENTER button.

Speakers emit the test tone for 2 seconds in turn, starting with the front speaker (left).



8 To end the test tone, press the SETUP button.

Notes:

- When the listening mode is “STEREO”, only the front speakers can be checked.
- If there is a disc in the tray, you cannot check the sound output.

■ Speaker level setting

If sounds from the speakers are uneven, you can equalise them by adjusting the speaker levels.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the FUNCTION button to select DVD mode.

3 Press the MODE button repeatedly to select the desired speaker.

4 Within 3 seconds, press the VOLUME + (VOLUME ▲) or VOLUME – (VOLUME ▼) button to adjust the level.

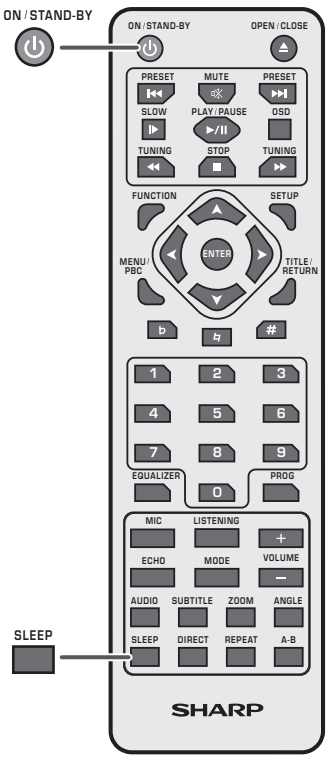
- You can adjust the level at 1 dB intervals.
- To adjust the levels of other speakers, repeat the operation from step 3.

Speaker type		Level range	Default setting
FRONT LEFT	Front speaker (Left)	- 10 DB to + 10 DB	0 DB
CENTRE	Centre speaker	- 10 DB to + 10 DB	0 DB
FRONT RIGHT	Front speaker (Right)	- 10 DB to + 10 DB	0 DB
SURROUND LEFT	Surround speaker (Left)	- 10 DB to + 10 DB	0 DB
SURROUND RIGHT	Surround speaker (Right)	- 10 DB to + 10 DB	0 DB
SUBWOOFER	Subwoofer	- 10 DB to + 10 DB	0 DB

Notes:

- The speaker type appears followed by “TREBLE”, “BASS” and “MASTER VOLUME”.
- For details on “TREBLE” and “BASS”, see page 26.
- The volume can still be adjusted even after “MASTER VOLUME” disappears.
- When the listening mode is “STEREO”, you can change the level of the front speakers and the subwoofer.
- If subwoofer sound is distorted, lower the subwoofer level.

Sleep operation



■ Setting the sleep timer

You can set the unit to the power stand-by mode at the specified time.

1 Playback the desired sound source.

2 Press the SLEEP button.

TV screen

Sleep 120mins

Unit display

1:03:11
SLP

SLEEP

To change the sleep time:

Press the SLEEP button repeatedly to select the desired sleep time. The time will decrease as follows.

90 MINS ← 60 MINS ← 30 MINS ←
→ 120 MINS → OFF

3 Your system will enter the power stand-by mode automatically after the preset time has elapsed.

To cancel the sleep operation:

To cancel the sleep operation, press the SLEEP button until “OFF” appears on the display.

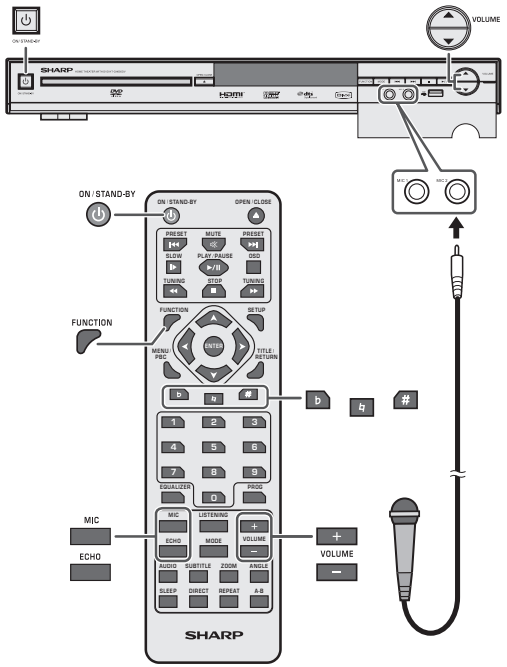
To confirm the remaining sleep time:

Press the SLEEP button whilst the sleep timer is set.
The remaining sleep time is displayed for about 5 seconds.

Caution:

This unit cannot set the sleep timer of other equipment.
To use the sleep timer using other equipment, you should also set the timer on the equipment separately.

Playing karaoke



■ Playing karaoke

You can enjoy karaoke to DVDs, video CDs, audio CDs and MP3 Discs by connecting separately available microphone to this unit.

1 **Set the MIC VOLUME control to "MIC 0" by pressing MIC button and then press VOLUME – button to protect the speakers from shock noise and to avoid disturbing noises.**

2 **Connect the microphone to the MIC 1 or MIC 2 socket or both sockets for enjoying duets.**
- Use a microphone with a 6.3 mm (1/4") plug, an impedance of 600 ohms.
- Use a standard plug adaptor when using a microphone with a 3.8 mm (1/8") diameter plug.

3 **Press the ON/STAND-BY button to turn the power on.**

4 **Load a karaoke disc and play it.**

5 **Adjust the volume of the audio source using the VOLUME + (VOLUME ▲) or VOLUME – (VOLUME ▼) button.**

6 **Adjust microphone volume by pressing MIC button and then press VOLUME + or VOLUME – button.**

■ To obtain the desired musical pitch (key control)

Press the Key Control button to obtain the desired musical pitch.

Press the ♭ button to lower the key. Key – 01..... – 16

Press the # button to raise the key. Key + 01.....+ 16

Press the ♮ button to return to the normal key. Key + 00

♭ ♪ #

Notes:
- The sound is produced in 2-channel stereo automatically whilst playing karaoke.
- Sound of the playback source can be switched (see page 36).
- The karaoke mode is disabled in the tuner function (FM) or during AUX functions.
- When you sing too loud through the microphone, your voice may be distorted depending on the devices connected. If this happens, lower the microphone volume.
- If an extremely sensitive microphone is used, howling may be generated.
- Unidirectional microphone is more appropriate for vocal use.
- When you connect or disconnect a microphone, the sound is muted for a few seconds.

If squealing occurs:
- Reduce the microphone volume.
- Change the direction of the microphone.
- Reduce the volume of the main unit.
- Move the microphone away from the speakers.

Caution:
- When not using the microphone, remove it from the MIC socket.
- When connecting or disconnecting the microphone, set the MIC VOLUME control to MIN.
- ECHO
  - Press ECHO to turn "ECHO" on. To toggle the echo level using the VOLUME + or VOLUME – button.

ECHO → ECHO 1 → ECHO 2 → ECHO 3 → ECHO 4 → ECHO 5 → ECHO 6 ..... ECHO 10

Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause	Reference page
No sound is heard.	● Is the volume level set to “0”?	P. 26
	● Are the speaker wires disconnected?	P. 13
The sounds from speakers are not well balanced.	● Are the speaker leads connected to the wrong channels?	P. 13
	● Is each speaker placed at the same distance from the listener?	P. 18
	● Are speakers adjusted to the same level?	P. 49
Noise is heard during playback.	● Move the unit away from any computers or mobile phones.	–
When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on.	P. 53
Interference or noise occurs on the TV image.	● Is the unit placed near TV with internal aerial? Use an external aerial.	P. 13
The power is not turned on.	● Is the unit unplugged?	P. 20
	● The protection circuit may be activated. Unplug and plug in the power lead again after 15 minutes or more.	P. 53
No images are displayed.	● Is TV turned on?	P. 19
	● Is the input of TV switched?	P. 19

■ DVD player

Symptom	Possible cause	Reference page
Even though a disc has been loaded, “NO DISC” is displayed.	● Is the disc loaded upside down?	–
	● Is the disc very dirty?	–
Playback sounds are skipped.	● Does the disc satisfy the standards?	–
	● Is the unit located near excessive vibrations?	–
	● Has condensation formed inside the unit?	P. 53
The control buttons do not function. Music or video playback is interrupted.	● Is the disc very dirty?	–
	● Does the disc satisfy the standards?	–
	● Is the unit located near excessive vibrations?	–
	● Has condensation formed inside the unit?	P. 53
Pictures and sound are skipped.	● Is the disc very dirty?	–
	● Is the unit located near excessive vibrations?	–
	● Has condensation formed inside the unit?	P. 53
The unit does not operate even if the power is on.	● Is a disc other than a DVD (region number on the back of the unit or ALL), SVCD, VCD, audio CD, CD-R or CD-RW loaded?	P. 4
Image cannot be played back. (Sound is not heard.)	● Are the video and audio cables connected improperly?	P. 14 - 17
	● Is a disc other than a DVD (region number on the back of the unit or ALL), SVCD, VCD, audio CD, CD-R or CD-RW loaded?	P. 4
	● Is the disc very dirty?	–
	● Is the disc loaded upside down?	–
	● Clean the optical pickup if it is dirty.	–
	● Is the TV input set to “VIDEO 1/ VIDEO 2”, etc.?	P. 27
	● Is the unit turned on?	P. 19

■ Tuner

Symptom	Possible cause	Reference page
The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer?	–
	● Is the FM aerial placed properly? Move the aerial away from the AC power lead or the unit if located near.	P. 13
The preset channel cannot be recalled.	● Did you remove the plug from the wall socket, or did a power failure occur? Set the channel again.	P. 45

■ Remote control

Symptom	Possible cause	Reference page
The remote control does not operate properly.	● Is the battery polarity respected?	P. 19
	● Are the batteries dead?	–
	● Is the distance or angle incorrect?	P. 19
	● Are there any obstructions in front of the unit?	–
	● Is the remote control sensor exposed to strong light (inverter fluorescent light, direct sunlight, etc.)?	P. 19
	● Is the remote control for another equipment used simultaneously?	–
The unit cannot be turned on with the remote control.	● Is the AC power lead of the unit plugged in?	P. 17
	● Are the batteries inserted?	P. 19

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

When the protection circuit is activated:

When short-circuiting the speaker leads or turning the volume too high, the protection circuit may be activated and the system may enter the stand-by mode.
Unplug the unit and, after 15 minutes or more, plug it in again.
Turn down the volume if set too high.

■ Before transporting the unit

1 Press the ON/STAND-BY button to turn the power on.
2 Press the ⏏ OPEN/CLOSE button to open the disc tray.
Remove the disc inserted in the unit.
3 Press the ⏏ OPEN/CLOSE button to close the disc tray.
4 Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the wall socket.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (laser pickup, etc.) or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

Error indicators and warnings

When you load an unplayable disc or fail to perform operations properly, the following messages are displayed on the unit and the TV screen.

Unit display	Meaning
NO DISC	● The disc is not loaded. ● The disc is scratched or dirty and cannot be recognised. ● The disc is loaded up-side down.
ERROR	● The region number of the DVD is not the number on the back of the unit or “ALL”.

TV screen	Meaning
NO DISC	● The disc is not loaded. ● The disc is scratched or dirty and cannot be recognised. ● The disc is loaded up-side down.
WRONG REGION	● The region number of the DVD is not the number on the back of the unit or “ALL”.

Maintenance

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 220 - 240 V ~ 50/60 Hz
Power consumption	Power on: 120 W
Dimensions	Width: 430 mm (17-1/8") Height: 55 mm (2-3/8") Depth: 365 mm (14-3/8")
Weight	4.1 kg (8.6 lbs.)
Audio input terminals	Analogue input (IN 1): RCA type × 1 pair (L/R) Analogue input (IN 2): RCA type × 1 pair (L/R)
Audio output terminals	Analogue output (OUT): RCA type × 1 pair (L/R)
Video output terminals	S-video output: S-terminal × 1 Video output: RCA type × 1 Component video output
HDMI output terminal	HDMI socket
Karaoke Mic terminal	6.3 mm × 2

■ Amplifier

Output power	Front speakers: RMS: 125 W (62.5 W + 62.5 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 125 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 125 W (62.5 W + 62.5 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 125 W (10 % T.H.D., 100 Hz)

■ DVD player

Signal system	PAL/NTSC colour	
Supported disc types	DVD (with the same region number on the back of the unit or ALL), SVCD, VCD, audio CD, CD-R, CD-RW, MP3	
Video signal	Horizontal resolution: 525 lines S/N ratio: 56 dB	
Audio signal	**Frequency characteristics**	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz
	S/N ratio	CD: 65 dB (1 kHz)
	Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB
	Total harmonic distortion ratio	0.2 % maximum

■ USB

Class	Mass storage class
Support file	MP3/WMA (do not support DRM file)
Format support	FAT 16 or FAT 32
Bitrate support	MP3 (32 ~ 320 kbps) WMA (64 ~ 160 kbps)
Support version	1.1 and 2.0 (Full speed)
Other	Not support ID3-tag

Specifications (continued)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz

■ Front speakers

Type	Full range speaker system (magnetic shield) 7.6 cm (3") speaker 2.0 cm (5/64") super tweeter
Maximum input power	100 W
Impedance	4 ohms
Dimensions	Width: 95 mm (3-47/64") Height: 150 mm (5-29/32") Depth: 95 mm (3-47/64")
Weight	0.7 kg (1.5 lbs.)/each

■ Surround speakers

Type	Full range speaker system 7.6 cm (3") speaker 2.0 cm (5/64") super tweeter
Maximum input power	100 W
Impedance	4 ohms
Dimensions	Width: 95 mm (3-47/64") Height: 150 mm (5-29/32") Depth: 95 mm (3-47/64")
Weight	0.5 kg (1.1 lbs.)/each

■ Centre speaker

Type	Full range speaker system (magnetic shield) 7.6 cm (3") x 2 speakers 2.0 cm (5/64") super tweeter
Maximum input power	180 W
Impedance	8 ohms
Dimensions	Width: 250 mm (9-27/32") Height: 95 mm (3-47/64") Depth: 85 mm (3-11/32")
Weight	1.1 kg (1.5 lbs.)

■ Subwoofer

Type	Subwoofer system 16.5 cm (6-1/2") subwoofer
Maximum input power	180 W
Impedance	8 ohms
Dimensions	Width: 182 mm (7-11/64") Height: 375 mm (14-49/64") Depth: 355 mm (13-63/64")
Weight	4.2 kg (9.2 lbs.)

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WARRANTY

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Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve(12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

IMPORTANT
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Model No. _____ Date of Purchase _____

Serial No. _____ Retailer _____

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SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
ABN 40 003 039 405
1 Huntingwood Drive
Huntingwood NSW 2148

SHARP CORPORATION OF NEW ZEALAND LIMITED
59 Hugo Johnston Drive
Penrose, Auckland

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IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

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